

20030711.qrp v02_n978.qrl.20030711

Date: Fri, 11 Jul 2003 19:03:14 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2978

QRP-L Digest 2978

Topics covered in this issue include:

- 1) [153997] Xtals
by "Emmersome Bigguns" <n8ie@woh.rr.com>
- 2) [153998] FS: Homebrew 40 Meter QRP Radio
by "Dennis Brickey" <n4dd@preferred.com>
- 3) [153999] OT: flying pig weathervane
by "Rex Harper" <w1rex@megalink.net>
- 4) [154000] DISPLACED CAJUN AT LOBSTERCOM
by hamjoel@juno.com
- 5) [154001] FOX: AC7A and K0FRP Sunday 07-13-03
by ac7a@earthlink.net
- 6) [154002] OT: A new source for surplus electronic parts
by jacksonharbor@att.net
- 7) [154003] Re: AC7A and K0FRP Sunday 07-13-03
by "George, W5YR" <w5yr@att.net>
- 8) [154004] Re: flying pig weathervane
by "Mike Yetsko" <myetsko@insydesw.com>
- 9) [154005] Re:Further to battery backup for home station
by "George, W5YR" <w5yr@att.net>
- 10) [154006] A CAmping I will go!
by "Jerry Felts" <nr5a@rap.midco.net>
- 11) [154007] Re: 44 Wye
by "Alan Fryer" <N3BJ@hotmail.com>
- 12) [154008] [CONTEST] N2CQ QRP Contest Calendar - July 12/31
by "Ken Newman" <n2cq@comcast.net>
- 13) [154009] Miniboats SSB Mod on PSK31
by NB6M@aol.com
- 14) [154010] IC-703 and FT-897 added to Elecraft rig comparison table
by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
- 15) [154011] IC-703 and FT-897 added to Elecraft rig comparison table (link fixed)
by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
- 16) [154012] Nice tutorials on semiconductors
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 17) [154013] CQ Antenna piece W5GI antenna
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 18) [154014] Re: [CONTEST] N2CQ QRP Contest Calendar - July 12/31
by "sslyon" <sslyon@megalink.net>

- 19) [154015] APOLOGIES to QRP Contest Calendar ...
by "sslyon" <sslyon@megalink.net>
- 20) [154016] Re: Good Day!
by William R Colbert <w5xe@juno.com>
- 21) [154017] Re: battery backup for home station
by Tim Groat <tcgroat@earthlink.net>
- 22) [154018] Where did all the piggies go
by "Jerry Ford" <benlightnd13@mchsi.com>
- 23) [154019] Re: battery backup for home station
by "George, W5YR" <w5yr@att.net>
- 24) [154020] RE: battery backup for home station
by "Dave Redfearn" <n4elm@comcast.net>
- 25) [154021] RE: 44 Wye
by "Dave Ek" <ekdave@earthlink.net>
- 26) [154022] Re: Good Day!
by Jim Eshleman <jce0@Lehigh.EDU>
- 27) [154023] Re: battery backup for home station
by "George, W5YR" <w5yr@att.net>
- 28) [154024] Re:Further to battery backup for home station
by Dave Fouchey <dafouchey@comcast.net>
- 29) [154025] Re: Further to battery backup for home station
by Tim Groat <tcgroat@earthlink.net>
- 30) [154026] AT Sprint power out
by Bob cutter <ki0g@yahoo.com>
- 31) [154027] The East Is Red (...And so is my face)
by Brad Thompson <Brad.Thompson@valley.net>
- 32) [154028] Re: OT: A new source for surplus electronic parts
by Bob Liesenfeld <wb0poq@visi.com>
- 33) [154029] Re: [ham] The East Is Red (...And so is my face)
by "KD5NWA" <KD5NWA@cbayona.com>
- 34) [154030] Re: AT Sprint power out
by "Lee Mairs" <lmairs@direcway.com>
- 35) [154031] Re: Further to battery backup for home station
by "George, W5YR" <w5yr@att.net>
- 36) [154032] RE: (fwd) Have You Been Harmed By Lead Solder?
by "Max Moon" <maxmoon@umn.edu>
- 37) [154033] Re: Triplet Meter Battery or Battery Building
by George Gingell <k3tks@u1.abs.net>
- 38) [154034] Re: CQ Antenna piece W5GI antenna
by Steve Smith <sigcom@juno.com>
- 39) [154035] Thanks
by Vin Santis <vsantis@earthlink.net>
- 40) [154036] RE: (fwd) Have You Been Harmed By Lead Solder?
by "John L. Sielke" <jsielke@pobox.com>
- 41) [154037] Re: Good Day!
by "John L. Sielke" <jsielke@pobox.com>
- 42) [154038] Re: Good Day!
by Jim Eshleman <jce0@Lehigh.EDU>

- 43) [154039] OP Amp VFO?
by "Edward Mullin" <kb1hys@hotmail.com>
- 44) [154040] Re: OT: A new source for surplus electronic parts
by <ah7i@atl.org>
- 45) [154041] RE: OP Amp VFO?
by "David Hinerman" <WD8CIV@worldnet.att.net>
- 46) [154042] Re: Good Day!
by "Mike Yetsko" <myetsko@insydesw.com>
- 47) [154043] Re: OP Amp VFO?
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 48) [154044] I am a lobster brain
by Jim Cluett <w1pid@yahoo.com>
- 49) [154045] Re: OT: A new source for surplus electronic parts
by "Brad Hernlem" <alihernlem@hotmail.com>
- 50) [154046] Re: Good Day!
by Rick McKee <kc8aon@juno.com>
- 51) [154047] Re: Short radials
by Michael Babineau <michael.babineau@sympatico.ca>
- 52) [154048] Re: Limited space antenna
by Michael Babineau <michael.babineau@sympatico.ca>
- 53) [154049] RE: Good Day!
by "David Hinerman" <WD8CIV@worldnet.att.net>
- 54) [154050] lobster brain
by "sslyon" <sslyon@megalink.net>
- 55) [154051] RM/MiniBoots - Again
by "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
- 56) [154052] Fox Hunt/HB Sprint Overlap
by "John L. Sielke" <jsielke@pobox.com>
- 57) [154053] Re: Good Day!
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 58) [154054] Extra Class Question Pool
by "William Phinizy" <k6whp@verizon.net>
- 59) [154055] OT: Anyone Need Win 95B or Word Perfect 7 Suite ?
by "Michael Melland" <w9wis@charter.net>
- 60) [154056] Re: OP Amp VFO?
by "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
- 61) [154057] Re: Good Day!
by "John L. Sielke" <jsielke@pobox.com>
- 62) [154058] Re: CQ Antenna piece W5GI antenna
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 63) [154059] Re: Good Day!
by Jim Eshleman <jce0@Lehigh.EDU>
- 64) [154060] Re: Extra Class Question Pool
by "William Phinizy" <k6whp@verizon.net>
- 65) [154061] ARRL Amateur Radio Interference Assessment project
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 66) [154062] Re: RM/MiniBoots - Again
by "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>

- 67) [154063] Batteries and charging
by "Walter D. Amos" <waltk8cvamosqrp@gbronline.com>
- 68) [154064] Many thanks for helping with QRP WAS
by jwatkins@birch.net
- 69) [154065] Re: Extra Class Question Pool
by K7VO <k7vo@earthlink.net>
- 70) [154066] The First Annual FP sprint
by "Jerry Ford" <benlightnd13@mchsi.com>
- 71) [154067] Manuals and schematics back up on Mizuho site
by K7VO <k7vo@earthlink.net>
- 72) [154068] Re: battery backup for home station
by KZurawski@aol.com
- 73) [154069] Re: OP Amp VFO?
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 74) [154070] RE: Batteries and charging
by "Bob & Janet" <jbcraft@adelphia.net>
- 75) [154071] July 11/03 1915 z bandscan
by Fred Lesnick <flesnick@tbaytel.net>
- 76) [154072] Lobstercon: K1T operation
by "Dave Benson" <nn1g@earthlink.net>
- 77) [154073] Re: [ham] Re: OP Amp VFO?
by KD5NWA <KD5NWA@cbayona.com>
- 78) [154074] RE: OP Amp VFO?
by "Boulineau, Lee" <lee.boulineau@attws.com>
- 79) [154075] Re: Extra Class Question Pool
by Karl Larsen <k5di@msn.com>
- 80) [154076] Slackware-9.0 question
by "Joe Martin" <km5cw@arrl.net>
- 81) [154077] Re: Op Amp VFO
by Lenny Wintfeld <w2bvh@comcast.net>
- 82) [154078] Millen 90652
by Ed Tanton <n4xy@earthlink.net>
- 83) [154079] Re: Manuals and schematics back up on Mizuho site
by William R Colbert <w5xe@juno.com>
- 84) [154080] Narrow CW filter in the FT 100-D
by IamSF5@aol.com
- 85) [154081] Re: Manuals and schematics back up on Mizuho site
by K7VO <k7vo@earthlink.net>
- 86) [154082] Re: Batteries and charging
by "Jim and Jade" <kw3u@warwick.net>
- 87) [154083] Reminder of QRP ARCI Summer Homebrew
by Randy Foltz <rfoltz@turbonet.com>

Date: Thu, 10 Jul 2003 18:59:12 -0400
From: "Emmersome Bigguns" <n8ie@woh.rr.com>
To: "QRP-1" <qrp-1@lehigh.edu>

Subject: [153997] Xtals
Message-ID: <MMEDLKDLONJJOAIGICDJAIEBBEJAA.n8ie@woh.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hello folks,
Diz, W8DIZ is having e-mail problems and wanted me to pass along this to you.

72, oo
Dan, N8IE

-----Original Message-----
From: w8diz [mailto:w8diz@fpqrp.com]
Sent: Thursday, July 10, 2003 6:34 PM
To: n8ie@woh.rr.com
Subject: Need Help or something...

Hi Gang,

I picked up 100 pieces of 14.008 MHz HC49/U XTals and will make them available on my website at 2 pieces for \$3.

If you don't want to order them from my website, send me a check for \$5 to cover shipping. PAYPAL [kitsales@kitsandparts.com] works too.

I checked these out in a VX0 circuit. They easily cover the lower 10 KHz on the 20 meter band.

Send checks to:
Dieter Gentzow W8DIZ
197 Timber Trail
Loveland, OH 45140

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.497 / Virus Database: 296 - Release Date: 7/4/2003

Date: Thu, 10 Jul 2003 19:09:14 -0400
From: "Dennis Brickey" <n4dd@preferred.com>
To: <qrp-l@lehigh.edu>
Subject: [153998] FS: Homebrew 40 Meter QRP Radio
Message-ID: <002001c34738\$492f8ea0\$e7627642@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Homebrew solid-state 40 meter cw rig: \$50. Please email with interest.

Thanks,

Date: Thu, 10 Jul 2003 18:45:10 -0400
From: "Rex Harper" <w1rex@megalink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [153999] OT: flying pig weathervane
Message-ID: <006701c34734\$ebf9e440\$1e3ca43f@stickfarmers>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Attention Piggies,

Stumbled across a flying pig weathervane on Ebay.....
URL to poke for the pig:

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3617432200&category=10866>

W1Rex Rex Harper The Tinman

Date: Thu, 10 Jul 2003 23:17:44 GMT
From: hamjoel@juno.com
To: fpqrp-l@mpna.com, qrp-l@Lehigh.EDU, LL11142@aol.com
Subject: [154000] DISPLACED CAJUN AT LOBSTERCOM

Message-ID: <20030710.161842.506.365716@webmail03.lax.unttd.com>
Mime-Version: 1.0
Content-Type: text/plain

High Y'all

well ah is packin to geaux to LOBSTERCOM tomorrow...
iffin u got u self a chance do drop on by...
kinda gotten excited kneauxing ah is gonna meet some icons, and otherwise folk
what kneaux what they is doing... intimidating as it is...
the onlyest way to learn is geaux and ask questions....
gonna bring some rope and wire and look for a place to hang a wire/rope antenna...
may hot have any lead in wire on it, but it gonna look pretty.
oh mike ah is gonna take some pictures... mail u the disk or something.... ah
don't do doccumenting of pictures good so ah hope u kneaux all these folk...
for the most part ah gets to make a first impression... hmmm
c u all ...joel

KE1LA JOEL
IN MAINE
FREEZIN

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Thu, 10 Jul 2003 16:22:38 -0700 (MST)
From: ac7a@earthlink.net
To: qrp-l@lehigh.edu
Cc: alk0frp@comcast.net
Subject: [154001] FOX: AC7A and K0FRP Sunday 07-13-03
Message-ID: <1282013.1057879358902.JavaMail.nobody@fozzie.psp.pas.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

All,

A1, K0FRP, and I will have the pleasure of being the Foxes the coming
Sunday. I'll be taking the high road above 14.060, and A1 will be taking
the
low road below 14.060.

My plan is operate in the first clear spot above 14.060, likely 14.062 or higher. Initially I will listen +1 to +2 KHz higher, but as things thin out later in the hunt I'll drop the split.

Al is unable to list to QRP-L right now, but I expect that he will use a similar split from his calling frequency.

I hope conditions support a good hunt!

Regards, Thomas - AC7A (Tucson) and AL - K0FRP

Date: Thu, 10 Jul 2003 23:45:53 +0000
From: jacksonharbor@att.net
To: qrp-l@lehigh.edu
Subject: [154002] OT: A new source for surplus electronic parts
Message-ID: <200307102345.h6ANjsi0019094@rain.CC.Lehigh.EDU>

Fellows and Gals -

I recently received an order of parts from a new (for me) seller of surplus electronic parts, Brad Thompson, AA1IP.

Brad had sent me a large list by email of the items he has for sale, Once I saw the 100 leds for a buck I was hooked ;) I also purchased some AM radio (500 pf) type varactors (MV1401) and a bunch of other goodies including some 2n2219 transistors which look like normal TO-92 NPN transistors except they have a little built-in metal tab, unique !

So if you're interested in purchasing surplus electronic parts at reasonable prices, contact Brad via email at: Brad.Thompson@valley.net

Best Regards,

Chuck Olson, WB9KZY
Jackson Harbor Press
<<http://jacksonharbor.home.att.net>>

Date: Thu, 10 Jul 2003 19:14:07 -0500
From: "George, W5YR" <w5yr@att.net>

To: <ac7a@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154003] Re: AC7A and K0FRP Sunday 07-13-03
Message-ID: <01f201c34741\$58c1fb60\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tom, where will Al be operating from? Back home in CO or ??

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----

From: <ac7a@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, July 10, 2003 6:22 PM
Subject: FOX: AC7A and K0FRP Sunday 07-13-03

>
> All,
>
> Al, K0FRP, and I will have the pleasure of being the Foxes the coming
> Sunday. I'll be taking the high road above 14.060, and Al will be taking
> the
> low road below 14.060.
>
> My plan is operate in the first clear spot above 14.060, likely 14.062 or
> higher. Initially I will listen +1 to +2 KHz higher, but as things thin
> out
> later in the hunt I'll drop the split.
>
> Al is unable to list to QRP-L right now, but I expect that he will use a
> similar split from his calling frequency.
>
> I hope conditions support a good hunt!
>
> Regards, Thomas - AC7A (Tucson) and AL - K0FRP
>

Date: Thu, 10 Jul 2003 20:18:58 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w1rex@megalink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154004] Re: flying pig weathervane
Message-ID: <005901c34742\$091b3ee0\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Attention Piggies,
>
> Stumbled across a flying pig weathervane on Ebay.....
> URL to poke for the pig:
>
>
<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3617432200&category=10866>
>

> W1Rex Rex Harper The Tinman

Now you just need to figure out how to digitize an interface to the thing
and have a HAM radio weather station as well...

Let's see, put a small magnet on each leg of the cups, and just copy the
pulse counter from the Dallas Semiconductor 1-wire weather station...
Heck, just buy a weather station from AAG, gut it, and put it on the
weathervane!

You'd just need to recalibrate the wind speed.

Mike

Date: Thu, 10 Jul 2003 19:33:21 -0500
From: "George, W5YR" <w5yr@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
<lmairs@direcway.com>
Cc: "Karl Kanalz" <kkanalz@gcecispc.com>
Subject: [154005] Re: Further to battery backup for home station
Message-ID: <021a01c34744\$08f1d300\$0401a8c0@PS>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Lee Mairs" <lairs@direcway.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, July 10, 2003 5:41 PM
Subject: Re:Further to battery backup for home station

> I have to take issue with what Karl says here.
> > In George's case, the Astron supply (whether adjustable or not) can be
> left
> > across a lead acid battery without any load on the battery/charger
system.
> > Although the Astron is *capable* of providing 35 amperes, it won't put
any
> > more current into the battery than the battery "needs" to be charged.
It
> > certainly won't be on the level of anywhere *near* 35 amperes in the
worst
> > of times!
>
> If AC power is lost, the battery can be significantly discharged. If so,
> the initial charging current after AC power is restored can be well above
35
> amperes.

Very true, Lee. It hasn't happened yet, and I would not use the battery to
the point of discharge in any event other than some emergency. IF the
battery became discharged, I can increase the VS-35M output voltage up to
nearly 15 volts which would be enough to restore the charge in a reasonable
time. With the current limiting it should be possible to find a charging
current that would not tax the supply. In the worst case, a small
incandescent lamp in series with the battery would suffice for current
limiting.

Thanks for bringing this up. I need to get the HP 428 Clamp-On DC
Milliammeter fired up and make some current measurements to see how things
are working.

> Also, even reasonable priced chargers now use multi stage charging modes.
> The initial or "bulk" charging stage can be up to 25% of the total
battery
> bank capacity. This continues until the battery bank reaches
approximately

> 80% of capacity when the charge goes into a constant voltage mode, the
> absorption phase, (about 14.4 volts maximum for a flooded battery, less
for
> a gel cell battery), until the battery reaches approximately 90% capacity.
> The charger then shifts to a float charge with about 13.6 VDC applied to
the
> battery terminal.
>
> Even assuming the RM-35 is able to survive the initial charging current
> drawn by a depleted battery, it will take it forever to re-charge the
> battery to 90-95% since its output is limited to 13.6 VDC.

As stated above, under the unlikely condition of a depleted battery, I would
take the necessary steps to ensure adequate charging current without damage
to the supply.

>
> Even if there is never a problem requiring the battery backup, the RM-35
> will not be able to apply the monthly equalization charge necessary to
keep
> the battery in top shape and avoid sulfation.

Right, and in that event one reaches for the old reliable "charger" off the
shelf and cranks up the voltage until appropriate bubbling is observed.

The system I described is not fully automatic, Lee, in the sense that it can
handle the situation of a fully discharged battery and recover without
manual intervention. There is never a load on the system unless I am in the
shack operating the equipment and "keeping an eye on things." Adequate fault
protection has been provided, and I cannot foresee ever running the battery
into a discharged state.

Anyone contemplating such a system should keep that in mind:

it is NOT fully automatic and will NOT prevent battery discharge in the even
the power supply fails nor will it automatically recover and recharge the
battery without manual intervention.

I regret that my original posting might have been interpreted incorrectly.
Thanks, Lee, for generating this added discussion.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

Date: Thu, 10 Jul 2003 18:37:04 -0600
From: "Jerry Felts" <nr5a@rap.midco.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154006] A CAmping I will go!
Message-ID: <01c801c34744\$8cc9a7c0\$3865dc18@jerryhc0zfej19d>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ok, boys and girls, Jerry's going to try it again! Last time I got rained out, but the weather reports say no rain. Its just going to be a over nighter, Saturday. Just me, my dog, and my crippled FT-817. I'll be cw without sidetone only, since my nice computer somehow wiped out my sidetone and ssb mode on the FT-817 --- long story! Thats ok, still have cw!

I'll be taking my crippled FT-817, a 20 dipole made of twinlead, 33ft wire with 17ft counter poises, and my home made Buddipole, also the 20m hamstick on the Tracker could be used. Power will be my 12v 7ah gel cell, and just in case my 4ah one. Of course all the extra goodies you need to operate a station.

Bands will probably be 20 - 17 - 30 - 40m in about that order, unless 6m opens then its all 6m. I will be on or around the qrp freqs, but 6m takes priority!

I will probably be at one of the 2 lakes close by, so if ya need South Dakota keep your ears peeled for NR5A.

Jerry - NR5A - South Dakota

Date: Thu, 10 Jul 2003 20:37:30 -0400
From: "Alan Fryer" <N3BJ@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154007] Re: 44 Wye
Message-ID: <Law9-0E61nx8dyDd30J000000337@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Steve

Sounds like an elevated radial vertical which should work very well on 40, 30 and 20M, the main bands of interest at this time in the cycle.

Wouldn't count on working much closer than 500-600 miles with it, unless it's very close groundwave...

Lobstercon sounds great, wish I could go - my kind of 'fest !!

Alan, N3BJ
Bent Mountain, VA

----- Original Message -----

From: "Steven Weber" <kd1jv@moose.ncia.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, July 10, 2003 5:02 PM
Subject: RE: 44 Wye

> >How is the Wye connected? Two legs on one feedline conductor and one leg
> on
> >the other conductor?
>
> Exactly. It's an upside down Y.
>
> If you feed it with coax, the vertical wire goes to the center conductor
> and the two "radials" at it were, connect to the shield. If you feed it
> with balanced line, it don't matter which side goes where.
>
> The center feed point should be elevated 5-8 feet off the ground so you
can
> slope make the upside down Y shape. I try to keep the ends of the wire a
> few feet off the ground, but don't know if that makes any real difference
> or not. Guess modeling it would give an idea what happens there, and if
the
> direction the radials go in affect the pattern.
>
> I belive you can find some info on this configuration in a ARRL antenna
> handbook.
> 72,
> Steve, KD1JV
> "Melt Solder"
> White Mountains of New Hampshire
> <http://www.qsl.net/kd1jv/>
>

Date: Thu, 10 Jul 2003 20:46:13 -0400
From: "Ken Newman" <n2cq@comcast.net>
To: "W3BG Jim Samuels" <W3BG@arrl.net>,
"K8NI Norm Into" <normk8ni@neo.rr.com>,
Subject: [154008] [CONTEST] N2CQ QRP Contest Calendar - July 12/31
Message-ID: <001501c34745\$d6cd2530\$dbc92d44@kensdell>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

~~~~~  
N2CQ QRP CONTEST CALENDAR  
July 12-31, 2003  
~~~~~

Summer FOX Hunt - Sundays through August 10, 2200-2330Z
Info: <http://www.cqc.org>
Truffle Hunt 30 min before Fox hunt. <http://fpqrp.com/pighunt2.html>
~~~~~

IARU HF World Championship (CW/SSB)  
Jul 12 - 1200z to Jul 13 - 1200z  
Rules: <http://www.iaru.org/contest.html>  
~~~~~

FISTS Summer Sprint (CW) ... QRP Category
Jul 12 - 1700z to 2100z
Rules: <http://www.fists.org/sprints.html>
~~~~~

QRP ARCI Summer Homebrew Sprint (CW) ... QRP Contest!  
Jul 13 - 2000z to 2400z  
Rules: <http://personal.palouse.net/rfoltz/arci/sumhom.htm>  
~~~~~

AGCW-DL QRP Summer Contest (CW) ... QRP Contest!
Jul 19 - 1500z to Jul 20 - 1500z
Rules: <http://www.sk3bg.se/contest/agcwqrps.htm>
~~~~~

North American QSO Party (RTTY) /QRP Entries Noted  
Jul 19 - 1800Z to Jul 20 - 0600Z  
Rules: <http://www.ncjweb.com/naqprules.php>  
~~~~~

CQ WW VHF Contest (All, 6 & 2 Meters) ... QRP (10W) Category
Jul 19 - 1800z to Jul 20 - 2100z
Rules: <http://www.cq-amateur-radio.com/>
~~~~~

RSGB Low Power Field Day (CW) ...QRP Contest!

Jul 20 - 0900z to 1200z (80 M)  
Jul 20 - 1300z to 1600z (40 M)  
Rules: <http://www.g4tsh.demon.co.uk/HFCC/>

~~~~~  
CQC Great Colorado Gold Rush (20 Meters CW) ... QRP Contest!
Jul 20 - 2000z to 2200z
Rules: <http://www.cqc.org/contests/index.htm>

~~~~~  
Islands On The Air Contest (CW/SSB) ... QRP Category  
Jul 26 - 1200z to Jul 27 1200z  
Rules: <http://www.g4tsh.demon.co.uk/HFCC>

~~~~~  
Kentucky QSO Party (CW/SSB/Digital)
Jul 26 - 1600z to Jul 27 - 0400z
Rules: <http://www.qsl.net/ky4ky/kyqsopartyrules.html>

~~~~~  
Flight of the Bumblebees (CW) ... QRP Contest!  
Jul 27 - 1700z to 2100z  
Rules: [http://www.natworld.com/ars/pages/bumblebees/bb\\_rules.html](http://www.natworld.com/ars/pages/bumblebees/bb_rules.html)

~~~~~  
Thanks to SM3CER, WA7BNM, N0AX(ARRL), WB3AAL and others
for assistance in compiling this calendar.

Please foreward the contest info you sponsor to N2CQ@ARRL.NET and
we will post it and give it more publicity.

Anyone may use this "N2CQ QRP Contest Calendar" for your website,
newsletter, e-mail list or other media as you choose.

(Include a credit to the source of this material of course.)

72 de

Ken Newman - N2CQ
N2CQ@ARRL.NET

<http://www.amqrp.org/contesting/contesting.html>
<http://www.njqrp.org/data/contesting.html>
<http://www.n3epa.org/Pages/Contest/contest.htm>
<http://www.qsl.net/cqrp/contests.html>

Date: Thu, 10 Jul 2003 21:07:11 EDT
From: NB6M@aol.com
To: qrp-1@Lehigh.EDU
Subject: [154009] Miniboosts SSB Mod on PSK31
Message-ID: <1da.db40ae8.2c3f67bf@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi All,

As Doug indicated in a previous post, there is an article forthcoming in the Homebrewer magazine about a simple SSB Mod to the Miniboosts amp.

The "Mod" has passed initial testing for the SSB Mode, and tests show that it will work for PSK31 if the heat generated by the 100% duty cycle can be successfully dissipated. The difference in duty cycle between SSB Voice and PSK31 is very great, meaning that putting out a solid five or more watts continuously, in a 100% duty cycle mode such as PSK31, means a lot of heat for the single Mosfet used in the Miniboosts amp. This has to be dissipated, or the result will be, at the least, a badly distorted signal, not to mention destruction of the IRF510.

In SSB Voice mode, with normal conversation, the Mosfet gets no hotter than it does in CW mode. However, the amount of heat sinking necessary in order to run PSK31 has still to be determined. The use of a quite large heat sink, and even a cooling fan, may be necessary. Or, it may be necessary to modify the circuit so as to use a pair of IRF510s in parallel. Experiments are continuing, and as soon as I have the heat sinking or other requirements nailed down, I will post the results.

72

Wayne NB6M

Date: Thu, 10 Jul 2003 18:10:47 -0700
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
To: Elecraft List <elecraft@mailman.qth.net>, QRP-L <qrp-l@lehigh.edu>, GQRP <gqrp@groups1.vip.scd.yahoo.com>
Subject: [154010] IC-703 and FT-897 added to Elecraft rig comparison table
Message-ID: <3F0E0E97.9030709@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi,

I have just added the IC-703 and FT-897 receive performance and receive current numbers to our rig comparison table at:
file:///D:/elecraft/K2_perf.htm

73, Eric WA6HHQ
<http://www.elecrafter.com>

Date: Thu, 10 Jul 2003 18:15:52 -0700
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
To: Elecraft List <elecraft@mailman.qth.net>, QRP-L <qrp-l@lehigh.edu>,
GQRP <qgrp@groups1.vip.scd.yahoo.com>
Subject: [154011] IC-703 and FT-897 added to Elecraft rig comparison table (link fixed)
Message-ID: <3F0E0FC8.9010704@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi,

Let's try this again with the correct link ;-)

I have just added the IC-703 and FT-897 receive performance and receive current numbers to our rig comparison table at:
http://www.elecrafter.com/K2_perf.htm

73, Eric WA6HHQ
<http://www.elecrafter.com>

Date: Thu, 10 Jul 2003 20:50:53 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-l@Lehigh.EDU>
Subject: [154012] Nice tutorials on semiconductors
Message-ID: <000b01c3474e\$dce3e590\$4e100a0a@rohredt2000>

Stumbled onto this site; click on Tutorials on left of their homepage:

<http://www.americanmicrosemi.com/> American Micro Semiconductor Co.

They have diodes, transistors, FETS, SCR, and even Tunnel Diode covered in tutorials. One of the companies I had somehow missed in semi trade.

72,
Stuart
K5KVH

Date: Thu, 10 Jul 2003 21:00:03 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [154013] CQ Antenna piece W5GI antenna
Message-ID: <001301c34750\$24f46ca0\$4e100a0a@rohredt2000>

Any avid antenna modelers on the reflector who have, or might try, to model the W5GI "Mystery Antenna" as presented in CQ this month? And report back to the reflector?

It is 3/2 wave on 20m. A doublet similar to G5RV but claims different phasing.

To do this, he goes out from center insulator: 1/4 wave with wire, then quarter wave of coax RG 8x, and shorts the far end, then another quarter wave of wire. At center, fed by Half Wave of parallel line, then goes to coax to shack. (No balun at junction).

He claimed two hams tried to model it but got results not in agreement. (Thus the "Mystery" in title).

Now that quarter wave transmission line transformation in the middle of each side should look somewhat like a trap? How does energy then get to outer wire? What am I overlooking? It is supposed to have gain on 20m and match easily at most bands, ie favorable SWR. He does NOT correct the coax segment length for Velocity factor of the coax. Says it did not work when he tried that. He Does correct the parallel line half wave for its Vp.

Apparently a number have been fabricated and work as advertised, ie multi lobes in main pattern, in phase, ease of SWR on several bands, but gain is on 20m. No claims of gain on higher bands.

Thanks and 72,
Stuart
K5KVH

Date: Thu, 10 Jul 2003 22:18:57 -0400
From: "sslyon" <sslyon@megalink.net>
To: <n2cq@comcast.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154014] Re: [CONTEST] N2CQ QRP Contest Calendar - July 12/31
Message-ID: <000501c34752\$c8e447c0\$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry to hear of the car problem, Mike.... I've had a glitch with my old pickup, too, but looks like it'll be ok by tomorrow. We aren't at the same spot, but apparently a very good one across the entry road. Just beep out a CQ and we'll find you. If it's daylight, we may have a kite and a whirlygig up to mark the spot. Good luck with the car OM. Someone will be listening to 2m simplex, I'm sure. KD1JV and I will be arriving around 2:30PM Friday... IF all goes well.

73

aa1my

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm
----- Original Message -----
From: "Ken Newman" <n2cq@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, July 10, 2003 8:46 PM
Subject: [CONTEST] N2CQ QRP Contest Calendar - July 12/31

>

> ~~~~~

> N2CQ QRP CONTEST CALENDAR

> July 12-31, 2003

> ~~~~~

> Summer FOX Hunt - Sundays through August 10, 2200-2330Z

> Info: <http://www.cqc.org>

> Truffle Hunt 30 min before Fox hunt. <http://fpqrp.com/pighunt2.html>

> ~~~~~

> IARU HF World Championship (CW/SSB)

> Jul 12 - 1200z to Jul 13 - 1200z

> Rules: <http://www.iaru.org/contest.html>

> ~~~~~

> FISTS Summer Sprint (CW) ... QRP Category

> Jul 12 - 1700z to 2100z

> Rules: <http://www.fists.org/sprints.html>

> ~~~~~

> QRP ARCI Summer Homebrew Sprint (CW) ... QRP Contest!

```

> Jul 13 - 2000z to 2400z
> Rules: http://personal.palouse.net/rfoltz/arci/sumhom.htm
> ~~~~~
> AGCW-DL QRP Summer Contest (CW) ... QRP Contest!
> Jul 19 - 1500z to Jul 20 - 1500z
> Rules: http://www.sk3bg.se/contest/agcwqrps.htm
> ~~~~~
> North American QSO Party (RTTY) /QRP Entries Noted
> Jul 19 - 1800Z to Jul 20 - 0600Z
> Rules: http://www.ncjweb.com/naqprules.php
> ~~~~~
> CQ WW VHF Contest (All, 6 & 2 Meters) ... QRP (10W) Category
> Jul 19 - 1800z to Jul 20 - 2100z
> Rules: http://www.cq-amateur-radio.com/
> ~~~~~
> RSGB Low Power Field Day (CW) ...QRP Contest!
> Jul 20 - 0900z to 1200z (80 M)
> Jul 20 - 1300z to 1600z (40 M)
> Rules: http://www.g4tsh.demon.co.uk/HFCC/
> ~~~~~
> CQC Great Colorado Gold Rush (20 Meters CW) ... QRP Contest!
> Jul 20 - 2000z to 2200z
> Rules: http://www.cqc.org/contests/index.htm
> ~~~~~
> Islands On The Air Contest (CW/SSB) ... QRP Category
> Jul 26 - 1200z to Jul 27 1200z
> Rules: http://www.g4tsh.demon.co.uk/HFCC
> ~~~~~
> Kentucky QSO Party (CW/SSB/Digital)
> Jul 26 - 1600z to Jul 27 - 0400z
> Rules: http://www.qsl.net/ky4ky/kyqsopartyrules.html
> ~~~~~
> Flight of the Bumblebees (CW) ... QRP Contest!
> Jul 27 - 1700z to 2100z
> Rules: http://www.natworld.com/ars/pages/bumblebees/bb\_rules.html
> ~~~~~
> Thanks to SM3CER, WA7BNM, N0AX(ARRL), WB3AAL and others
> for assistance in compiling this calendar.
>
> Please foreward the contest info you sponsor to N2CQ@ARRL.NET and
> we will post it and give it more publicity.
> Anyone may use this "N2CQ QRP Contest Calendar" for your website,
> newsletter, e-mail list or other media as you choose.
> (Include a credit to the source of this material of course.)
> 72 de
> Ken Newman - N2CQ
> N2CQ@ARRL.NET
>

```

> <http://www.amqrp.org/contesting/contesting.html>
> <http://www.njqrp.org/data/contesting.html>
> <http://www.n3epa.org/Pages/Contest/contest.htm>
> <http://www.qsl.net/cqrp/contests.html>
>

Date: Thu, 10 Jul 2003 22:21:31 -0400
From: "sslyon" <sslyon@megalink.net>
To: "sslyon" <sslyon@megalink.net>, <n2cq@comcast.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154015] APOLOGIES to QRP Contest Calendar ...
Message-ID: <000b01c34753\$24859de0\$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Can you tell I've been up a tad too long? Pls disregard my reply intended to
Mike re LOBSTERCON.

73
aa1my

>

Date: Thu, 10 Jul 2003 20:19:43 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [154016] Re: Good Day!
Message-ID: <20030710.201944.-417997.11.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I did find the one that went out after the blank
message and no appearance on the list so it
must have been in the discard. twice.

Date: Thu, 10 Jul 2003 20:21:22 -0600
From: Tim Groat <tcgroat@earthlink.net>
To: qrp-l@lehigh.edu, "George, W5YR" <w5yr@att.net>

Subject: [154017] Re: battery backup for home station
Message-ID: <5.1.1.6.2.20030710201656.00a31070@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

George, you're right about the VX-35M vs. the RS-35M. I had my Astron models mixed up. The adjustable current limit allows charging the battery without risk to the power supply. I apologize, and now will attempt to remove foot from mouth...

72,
--Tim (KR0U)

>"George, W5YR" <w5yr@att.net>:
>
>Tim, I have to disagree about the VX-35M not being suitable for this
>service.

Date: Thu, 10 Jul 2003 20:56:18 -0500
From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-1" <qrp-1@lehigh.edu>, "FPigs" <fpqrp-1@mpna.com>
Subject: [154018] Where did all the piggies go
Message-ID: <067801c3474f\$9fd794c0\$0077da0c@mchsi.com>

A new piggie sitten by freq waiting to give his number out to all. A famous piggie sitten by freq waiting to give out his number. And no piggies to work !!

(mind you I don't fall into either of those catagories)

But still sitten by freq waiting along with them.

Stop by and say howdy:

Jerry N0JRN

FP # 546, ARS # 923, ARCI # 11049, ARRL,
Springfield, Mo. <http://home.mchsi.com/~n0jrn/>
MP + # 8, K 1 # 608, SW 20 +, TT 1340 , RM 20 &
40, Tiny Tornado 20, 30, 40, 80, SMK - 1
and so on and so on

Date: Thu, 10 Jul 2003 21:38:19 -0500
From: "George, W5YR" <w5yr@att.net>
To: <tcgroat@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154019] Re: battery backup for home station
Message-ID: <02c001c34755\$7e139270\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

No problem at all, Tim - I appreciate your interest and suggestions.

Another fellow commented on the situation wherein the battery is allowed to fully discharge and the possible difficulty of bringing it back up with only the Astron. (It will . . .)

So your comments stimulated some good discussion.

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----

From: "Tim Groat" <tcgroat@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, July 10, 2003 9:21 PM
Subject: Re: battery backup for home station

> George, you're right about the VX-35M vs. the RS-35M. I had my Astron
> models mixed up. The adjustable current limit allows charging the battery
> without risk to the power supply. I apologize, and now will attempt to
> remove foot from mouth...

>

> 72,

> --Tim (KR0U)

>

> >"George, W5YR" <w5yr@att.net>:

> >

> >Tim, I have to disagree about the VX-35M not being suitable for this
> >service.
>
>

Date: Thu, 10 Jul 2003 21:40:14 -0500
From: "Dave Redfearn" <n4elm@comcast.net>
To: <w5yr@att.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [154020] RE: battery backup for home station
Message-ID: <000501c34755\$c2dafa70\$016fa8c0@Pavillion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I pretty much agree with George on this but not having read all the emails,
I'm not sure if 2 points have been mentioned.

1. What kind of load does the power supply present to the battery when the
AC is off and the battery is supplying power?
Some power supply designs do not tolerate reverse voltage across the
regulator circuitry or worse present a very low resistance (or short) across
the output terminals. A series diode between the power supply and the
battery usually provides sufficient isolation but I always test to be sure.

2. Can the power supply supply more than the safe maximum charging current
for the battery?
My rule of thumb for lead acid batteries is to use about 1/10 of the battery
AH rating or follow the manufacturer's recommendation. So for the 105 AH
battery, I would be looking to limit the max current from the power supply
to about 10 amps. If limiting the power supply current is not practical due
to powering other equipment, then some kind of current limiting/charge
controller circuitry may be needed (like a resistor between the power supply
and the battery to limit the max current draw).

First place to check for help is the power supply manufacturer.
I have an older RS-20A Astron supply.

One of the options for this supply was a battery charger kit that could be
installed to allow it to trickle charge a lead acid battery and switch over
to the battery on AC power loss. Astron sent me the kit and while I had the
supply open to install it, I rewired the internal voltage adjust pot to a
panel mounted type making it a variable supply so I could easily set the
proper float voltage for the battery (13.65). A version of this power supply
and battery arrangement along with a digital voltage monitor and distributed

circuitbreaker power feeds has worked as my main station supply for 10-15 years.

I have found that most linear type supplies using LM-323 style regulators and even some switching supplies have some type of voltage and over-current adjustment that can be extended to the front panel if needed for ease of adjustment.

BTW, inattention to 1 & 2 above can produce spectacular results at inopportune times :-)

73 - Dave

=====
Dave Redfearn, ARS N4ELM, McKinney, TX
Email: n4elm@NOJUNKcomcast.net (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of George, W5YR
Sent: Thursday, July 10, 2003 2:40 PM
To: Low Power Amateur Radio Discussion
Subject: Re: battery backup for home station

Tim, I have to disagree about the VX-35M not being suitable for this service. It is charging a single large 105 AH deep-cycle battery with the terminal voltage at the battery held by the regulated supply at 13.8 volts.

Every circuit in the system is fused. The supply provides under load only the current that the battery does not. IN the absence of load current, the supply provides only the charging current that maintains a float-charge terminal voltage of 13.8 volts.

The current limiting (adjustable) is set at about 30 amps. If the battery were to short a cell internally or other such fault, the series charging fuse would blow and protect both the supply and the battery.

Date: Thu, 10 Jul 2003 20:48:30 -0600

From: "Dave Ek" <ekdave@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154021] RE: 44 Wye
Message-ID: <003901c34756\$e9ed2be0\$6801a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Gang,

I've used an inverted wye for a couple years on 20m. It actually seems to hear fairly well. I built mine with 26-gauge teflon fed with 15 or 20 feet of RG-174. In my case, I hoisted mine up high enough so that the angles between all the wires were the same (120 deg), and then pruned the radials for low SWR on 20m, omitting the need for a tuner. It's quite lightweight and compact and easy to put up (only requiring about 25 feet of height). Paired with an SST and a lightweight battery pack, it makes a nice compact package for casual use backpacking. I haven't tried one for 40m simply because of the height required to put it up.

73 de Dave NK0E

Date: Thu, 10 Jul 2003 22:56:01 -0400
From: Jim Eshleman <jce0@Lehigh.EDU>
To: w5xe@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154022] Re: Good Day!
Message-ID: <3F0E2741.5020004@Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Ray,

Would you please forward me a copy so I can search for the Message-Id in the server logs?

73
Jim N3VXI

> I did find the one that went out after the blank
> message and no appearance on the list so it
> must have been in the discard. twice.

Date: Thu, 10 Jul 2003 21:48:41 -0500
From: "George, W5YR" <w5yr@att.net>
To: <n4elm@comcast.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154023] Re: battery backup for home station
Message-ID: <030701c34756\$f0ca1180\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for the comments and interest, Dave.

I have addressed all your points in responding to others. I will forward copies to you for your convenience.

If you find anything that I have missed, please let me know!

One thing that I may have forgotten to mention is that I connect to the battery through a slow-action 25-amp toggle breaker which makes a convenient disconnect switch. Belts and suspenders, etc. . . .

One does not lightly fool around with copious amps that large batteries can produce, not to mention hydrogen sulphide and other unwelcome guests (which is why my battery lives outside!).

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----
From: "Dave Redfearn" <n4elm@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, July 10, 2003 9:40 PM
Subject: RE: battery backup for home station

> I pretty much agree with George on this but not having read all the

emails,

> I'm not sure if 2 points have been mentioned.

>

> 1. What kind of load does the power supply present to the battery when the
> AC is off and the battery is supplying power?

> Some power supply designs do not tolerate reverse voltage across the
> regulator circuitry or worse present a very low resistance (or short)
across

> the output terminals. A series diode between the power supply and the
> battery usually provides sufficient isolation but I always test to be
sure.

>

> 2. Can the power supply supply more than the safe maximum charging current
> for the battery?

> My rule of thumb for lead acid batteries is to use about 1/10 of the
battery

> AH rating or follow the manufacturer's recommendation. So for the 105 AH
> battery, I would be looking to limit the max current from the power supply
> to about 10 amps. If limiting the power supply current is not practical
due

> to powering other equipment, then some kind of current limiting/charge
> controller circuitry may be needed (like a resistor between the power
supply

> and the battery to limit the max current draw).

>

> First place to check for help is the power supply manufacturer.

> I have an older RS-20A Astron supply.

> One of the options for this supply was a battery charger kit that could be
> installed to allow it to trickle charge a lead acid battery and switch
over

> to the battery on AC power loss. Astron sent me the kit and while I had
the

> supply open to install it, I rewired the internal voltage adjust pot to a
> panel mounted type making it a variable supply so I could easily set the
> proper float voltage for the battery (13.65). A version of this power
supply

> and battery arrangement along with a digital voltage monitor and
distributed

> circuitbreaker power feeds has worked as my main station supply for 10-15
> years.

>

> I have found that most linear type supplies using LM-323 style regulators
> and even some switching supplies have some type of voltage and
over-current

> adjustment that can be extended to the front panel if needed for ease of
> adjustment.

>

> BTW, inattention to 1 & 2 above can produce spectacular results at

> inopportune times :-)
>
>
> 73 - Dave
> =====
> Dave Redfearn, ARS N4ELM, McKinney, TX
> Email: n4elm@NOJUNKcomcast.net (to reply, remove NOJUNK)
> QRL? de N4ELM/qrp
>
>
>
>
> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> George, W5YR
> Sent: Thursday, July 10, 2003 2:40 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: battery backup for home station
>
>
> Tim, I have to disagree about the VX-35M not being suitable for this
> service. It is charging a single large 105 AH deep-cycle battery with the
> terminal voltage at the battery held by the regulated supply at 13.8
volts.
>
> Every circuit in the system is fused. The supply provides under load only
> the current that the battery does not. IN the absence of load current,
the
> supply provides only the charging current that maintains a float-charge
> terminal voltage of 13.8 volts.
>
> The current limiting (adjustable) is set at about 30 amps. If the battery
> were to short a cell internally or other such fault, the series charging
> fuse would blow and protect both the supply and the battery.
>
>
>

Date: Thu, 10 Jul 2003 22:58:26 -0400
From: Dave Fouchey <dafouchey@comcast.net>
To: kkanalz@gcecis.com,
Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [154024] Re:Further to battery backup for home station
Message-ID: <5.2.1.1.2.20030710225035.00a83790@mail.comcast.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Right on Karl, we use that setup in all our PBX/MUX rooms. We use a similar system of charger/lead acid battery in our remote base radios. In our case we use 2 x 6 Volt batteries in series to provide the nominal 12 vdc to the system, these are typically 200 AH cells and can keep a site operating for as long as three days with low transmit usage. The Radios and Control Equipment use in excess of 75 watts when transmitting, much less on RX. The Chargers are set to float charge in order to minimize problems with the batteries. Some of which have been in service for in excess of 10 years. Proper Charger/Battery selection is the key to a trouble free installation.

Dave
WA4EMR
Manager Communications
CSX Technology division of CSX Transportation

At 04:08 PM 7/10/03 -0500, Karl wrote:

>In the telecom industry, flooded cells or even gel-cells are used to provide
>back-up power in the event of AC mains power failure.

>

>The charger/rectifiers used with such systems are rated to carry the LOAD
>current as well as provide a "trickle charge" to the flooded/gel cells.
>These cells are in parallel with the charger/rectifier output(s) and are
>then connected to the various loads (such as multiplex, microwave, fiber
>optic transceivers, etc.). All in PARALLEL. If the primary AC power fails,
>then the batteries automatically begin to provide d.c. power to the load(s),
>without any "glitches" being seen by the load(s). There are *NO* special
>circuits to control the charging current to the battery bank(s).

>

>Usually, there is a large (huge, actually!) fuse between the charger and the
>battery bank and another huge fuse between the battery bank and the load(s)
>in case of short circuits (just as George described in his set up at home).
>Sometimes, there are "load disconnect switches" installed between the
>battery bank(s) and the load(s) to totally disconnect the battery bank when
>the terminal voltage falls below a preset level to protect the battery
>bank(s) from a total deep discharge. Of course, when the "load disconnect"
>actuates, the load (microwave, multiplex, etc...) then becomes
>non-functioning. Hopefully, before that happens, the emergency generator
>will have come on-line and restore "Primary AC power" to the
>charger/rectifier systems so no further "glitches" will be "seen" by the
>equipment loads.

>

>In George's case, the Astron supply (whether adjustable or not) can be left
>across a lead acid battery without any load on the battery/charger system.
>Although the Astron is *capable* of providing 35 amperes, it won't put any
>more current into the battery than the battery "needs" to be charged. It

>certainly won't be on the level of anywhere *near* 35 amperes in the worst
>of times! The charging current to the "naked battery" will be only what it
>needs to reach full charge. Once the battery is properly charged, current
>output of the Astron supply (adjustable or not) will become almost miniscule
>(look that up in your Funk & Wagnall's).

>

>Karl K - W8TIF
>McKinney, Texas

>

>----- Original Message -----

>From: "George, W5YR" <w5yr@att.net>

>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

>Sent: Thursday, July 10, 2003 2:40 PM

>Subject: Re: battery backup for home station

>

>

> > Tim, I have to disagree about the VX-35M not being suitable for this
> > service. It is charging a single large 105 AH deep-cycle battery with the
> > terminal voltage at the battery held by the regulated supply at 13.8
>volts.

> >

> > Every circuit in the system is fused. The supply provides under load only
> > the current that the battery does not. IN the absence of load current,
>the

> > supply provides only the charging current that maintains a float-charge
> > terminal voltage of 13.8 volts.

> >

> > The current limiting (adjustable) is set at about 30 amps. If the battery
> > were to short a cell internally or other such fault, the series charging
> > fuse would blow and protect both the supply and the battery.

> >

> > In terms of your points:

> >

> > > The original post mentioned using an Astron RS-35M power supply to
>charge

> > > the batteries. While it's inviting to use something you already have,
> > > that's not an ideal solution.

> >

> > My post spectified a VS-35M with variable voltage output and variable
> > current limiting. Not at all the same as the RS-35 which is fixed in both
> > regards.

> >

> > First, the RS-35 supply will deliver at least

> > > 35A at current limit. That may be too much charge current, especially if
> > > it's small or a sealed battery.

> >

> > The VS-35 can be set to any limit I choose, and the battery is a large,
> > wet-cell RV battery which gets its water levels and terminal voltage

>checked
> > at least weekly.
> >
> > Second, the RS-35 has both CCS (continuous)
> > > and ICAS (intermittent) current ratings. Running it at current limit for
>a
> > > long time exceeds its CCS rating, and may damage it.
> >
> > Again that may be a problem with the RS-35 but not the VS-35M I am using.
> >
> > Power supplies use
> > > current limit like the rpm limiter in a car engine--it's a safety
> > > over-ride, not something you're supposed to use constantly. Battery
> > > chargers use current limit like the governor in a lawn mower engine--it
> > > controls the speed in normal use. A good battery charger or a
> > > current-limiting solar panel charge controller would be a better choice;
> > > both are designed to handle their rated output current continuously.
> >
> > To followup on the lawn mower analogy, the governor tries to maintain a
> > constant engine speed under load changes. As the load increases, the
>engine
> > is speeded up. The analogy here is that as load current increases, the
> > charger tries to force more charging current into the battery even though
>it
> > may be fully charged.
> >
> > Using a regulated, constant-voltage power supply provides a current to the
> > battery only when the terminal voltage under load falls lower than the
> > output voltage of the supply(less the diode drop), in my case 13.8 volts
>at
> > the battery terminals. Then, current is provided to the battery through
>the
> > isolation diode and 30 amp fuse. I feel that this results in less stress
>on
> > the battery than using a charger which may or may not be "smart" enough to
> > work in this environment as opposed to the other forms of storage battery
> > applications.
> > >
> > > In every case, follow the battery manufacturer's charging
>recommendations.
> > > They aren't all the same. A few tenths of a volt does make a difference
>in
> > > the performance and life of your battery.
> >
> > Agreed! <:}
> >
> > Tim, I think that if you will review this from the viewpoint of the actual
> > supply I mentioned, you will find that the system I described is highly

> > unlikely to damage the battery, the supply or the load in the event of a
> > number of potential (pun intended!) fault conditions.
> >
> > I much prefer using a reliable power supply, relatively well regulated and
> > stable with known behavior, than a "smart" charger whose behavior is
> > directly controlled by the battery to which it is attached and which is
> > undergoing variable load conditions. And, unfortunately, many of the
> popular
> > "smart" chargers available at Wal-Mart or Sam's are hardly sterling
> examples
> > of engineering.
> >
> > I guess it is a matter of you use the system you like, and I use the
> system
> > I like! <:}
> >
> > Mine has worked a long time with no damage to the battery or anything
> else.
> >
> > 73/72, George
> > Amateur Radio W5YR - the Yellow Rose of Texas
> > Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
> > "In the 57th year and it just keeps getting better!"

Date: Thu, 10 Jul 2003 20:56:51 -0600
From: Tim Groat <tcgroat@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [154025] Re: Further to battery backup for home station
Message-ID: <5.1.1.6.2.20030710202846.00a30450@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

When the battery is fully charged--yes, the current will be the low "float current" and there's no problem (probably less than 100mA, just enough to make up for self-discharge). But if the battery is down to, say, 50% capacity it will draw more current than is safe unless the charger is properly current-limited. George mentions a 105A-Hr deep-cycle wet cell RV battery. That probably has 6 milliohms or less internal resistance. With the fuse and suitably heavy-duty cables, perhaps that increases to 15 milliohms resistance at the charger terminals. Suppose the battery is down to 12.0V. Turn on the charger, and the voltage across this series resistance is $(13.5V - 12.0V) = 1.5V$, and by Ohm's law $1.5V / .015 \text{ Ohm} = 100A$. This is where the charger's current limit comes into play: controlling the recharge current after a power outage.

72,
--Tim (KROU)

>"Karl" <kkanalz@gcecispc.com>:

>

>In George's case, the Astron supply (whether adjustable or not) can be left
>across a lead acid battery without any load on the battery/charger system.
>Although the Astron is *capable* of providing 35 amperes, it won't put any
>more current into the battery than the battery "needs" to be charged. It
>certainly won't be on the level of anywhere *near* 35 amperes in the worst
>of times! The charging current to the "naked battery" will be only what it
>needs to reach full charge. Once the battery is properly charged, current
>output of the Astron supply (adjustable or not) will become almost miniscule
>(look that up in your Funk & Wagnall's)

Date: Thu, 10 Jul 2003 19:58:24 -0700 (PDT)
From: Bob cutter <ki0g@yahoo.com>
To: qrp-1@lehigh.edu
Subject: [154026] AT Sprint power out
Message-ID: <20030711025824.14371.qmail@web40710.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I get a little over 3w out on 20M but with the same
power supply I get 5+ on 40M and 30M. Turn count is
correct and spacing does not seem to get it above this
figure.

Any suggestions? Actually it works well at 3w.

72, Bob KI0G

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Date: Thu, 10 Jul 2003 23:14:17 -0400
From: Brad Thompson <Brad.Thompson@valley.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154027] The East Is Red (...And so is my face)

Message-ID: <5.0.2.1.2.20030710231149.021d82e0@pop3.norton.antivirus>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello--

My thanks go to everyone who requested a copy of my current components-FS list.

To my horror, I discovered after sending over a dozen replies that the master list had in effect doubled itself, making the file much longer than it needed to be.

Please accept my apologies for the excessive bandwidth!

73--

Brad AA1IP

Date: Thu, 10 Jul 2003 22:09:30 -0500
From: Bob Liesenfeld <wb0poq@visi.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154028] Re: OT: A new source for surplus electronic parts
Message-ID: <3F0E2A6A.8346FCB1@visi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

jacksonharbor@att.net wrote:

>

> Fellows and Gals -

>

> I recently received an order of parts from a new (for me)

> seller of surplus electronic parts, Brad Thompson, AA1IP.

>

I too have dealt with Brad on a few items and have been very satisfied.

Bob WB0POQ

Date: Thu, 10 Jul 2003 22:30:31 -0500
From: "KD5NWA" <KD5NWA@cbayona.com>
To: Brad.Thompson@valley.net,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [154029] Re: [ham] The East Is Red (...And so is my face)
Message-ID: <3F0DE907.7080.2F4EA58@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

You are not forgiven, as punishment you will go to your room without supper, and as further punishment, you will have to continue selling us goodies for a fair price. Now don't do it again.

On 10 Jul 2003 at 23:14, Brad Thompson wrote:

> Hello--
> My thanks go to everyone who requested a copy of my current components-FS list.
>
> To my horror, I discovered after sending over a dozen replies that the
> master list
> had in effect doubled itself, making the file much longer than it needed to be.
>
> Please accept my apologies for the excessive bandwidth!
>
> 73--
> Brad AA1IP
>

Date: Thu, 10 Jul 2003 23:33:20 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: <ki0g@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154030] Re: AT Sprint power out
Message-ID: <076401c3475d\$2d10c430\$2202a8c0@J4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think the list moderator ought to censor out all these posts from guys lucky enough to have gotten an AT Sprint kit. It breaks my heart every time I see one of these things...

73 de Lee
km4yy/8

----- Original Message -----

From: "Bob cutter" <ki0g@yahoo.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Thursday, July 10, 2003 10:58 PM

Subject: AT Sprint power out

> I get a little over 3w out on 20M but with the same
> power supply I get 5+ on 40M and 30M. Turn count is
> correct and spacing does not seem to get it above this
> figure.

>

> Any suggestions? Actually it works well at 3w.

>

> 72, Bob KI0G

>

> -----

> Do you Yahoo!?

> SBC Yahoo! DSL - Now only \$29.95 per month!

> <http://sbc.yahoo.com>

>

Date: Thu, 10 Jul 2003 22:50:33 -0500

From: "George, W5YR" <w5yr@att.net>

To: <tcgroat@earthlink.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [154031] Re: Further to battery backup for home station

Message-ID: <035501c3475f\$9650aa80\$0401a8c0@PS>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Tim, as I explained in another posting, unless some emergency situation demanded it, I would not continue operation in face of a prolonged power outage. Thus, the likelihood of encountering a 100 amp charging current are rather remote.

In the event, however, that such a situation did present itself, I would probably resort to external current limiting if indeed the charging current was tripping the overcurrent logic of the supply. A small incandescent lamp in the battery lead would do nicely.

Please note that this is not a long-term, totally automatic emergency power

installation. It is a glorified UPS for the ham shack, permitting the operator to have time for an orderly shutdown of equipment in the face of a prolonged outage and preventing voltage transients arising from the line voltage rapidly switching on and off, as it does with some types of line faults, from damaging the equipment.

I hope that clears up any remaining concerns about this particular installation. To emphasize: this is NOT the same installation as I would employ if I were designing a station to be run exclusively from storage batteries, perhaps recharged by solar cells or by a "smart" charger when the radio equipment was not in use.. Again, think of it as a convenient super-UPS made from readily available units on hand that provides an extra layer of protection and capability.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"In the 57th year and it just keeps getting better!"

<mailto:w5yr@att.net>

----- Original Message -----

From: "Tim Groat" <tcgroat@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Thursday, July 10, 2003 9:56 PM

Subject: Re: Further to battery backup for home station

> When the battery is fully charged--yes, the current will be the low "float
> current" and there's no problem (probably less than 100mA, just enough to
> make up for self-discharge). But if the battery is down to, say, 50%
> capacity it will draw more current than is safe unless the charger is
> properly current-limited. George mentions a 105A-Hr deep-cycle wet cell RV
> battery. That probably has 6 milliohms or less internal resistance. With
> the fuse and suitably heavy-duty cables, perhaps that increases to 15
> milliohms resistance at the charger terminals. Suppose the battery is down
> to 12.0V. Turn on the charger, and the voltage across this series
> resistance is $(13.5V - 12.0V) = 1.5V$, and by Ohm's law $1.5V/.015\text{ Ohm} =$
> 100A. This is where the charger's current limit comes into play:
> controlling the recharge current after a power outage.

>

> 72,

> --Tim (KR0U)

>

> >"Karl" <kkanalz@gceecisp.com>:

> >
> >In George's case, the Astron supply (whether adjustable or not) can be left
> >across a lead acid battery without any load on the battery/charger system.
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> >more current into the battery than the battery "needs" to be charged. It
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> >of times! The charging current to the "naked battery" will be only what it
> >needs to reach full charge. Once the battery is properly charged, current
> >output of the Astron supply (adjustable or not) will become almost miniscule
> >(look that up in your Funk & Wagnall's)
>
>

Date: Thu, 10 Jul 2003 22:52:18 -0500
From: "Max Moon" <maxmoon@umn.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [154032] RE: (fwd) Have You Been Harmed By Lead Solder?
Message-ID: <001301c3475f\$d4aeda40\$9739fea9@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello, my name is Max and I've been Harmed By Lead Solder. (Hi Max!)

At first it didn't bother me, I could take it or leave it. But one kit became two, two kits became three, and pretty soon I was hooked.

I began to notice the symptoms of Harm By Lead Solder. My fine muscle control began to go bad. I explained this to my wife because it was the reason I had to stop washing the dishes. Next, my memory started going. I forgot our wedding anniversary. Then I forgot my wife's birthday. But this didn't stop me from wanting more Solder. Not one bit!

I became secretive about my kits. I had unfinished kits hidden all over the house. And I began to prefer kits from places like AzsQRPions, Steve Weber, and Nor Cal. That's because they came in small, unmarked plain brown mailing envelopes. But they used Lead Solder just as much as the big, obvious

kits--and my family always noticed the obvious kits and sent them back before I could melt any Lead Solder.

The family finally confronted me with the facts. It was plain as day. I had been Harmed by Lead Solder and, what's worst of all, I wanted more and more of it. But I had to admit the truth. Fortunately, I was able to tell them about the wonderful treatment program for people like me. They were surprised that there was only one place where I could get help but agreed that I needed to go there. They thought that the good news, if there was any, was that treatment took only Four Days In May.

If any of you think you might have been Harmed by Lead Solder, don't walk, run to Dayton, Ohio, as soon as it opens for its next treatment group. It's not cheap--take lots of money--but afterwards your family and friends will be so thrilled to have you back that they won't even notice all the neat stuff you've got in the trunk.

Max, k0max
(Thanks, Max! --Applause--)

Date: Fri, 11 Jul 2003 00:20:36 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Cc: n6wg@earthlink.net
Subject: [154033] Re: Triplett Meter Battery or Battery Building
Message-ID: <20030710233928.X64029-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It has been a very long time since I have even thought about replacing the 30 Volt Battery in my Old 630. Seems like the 310 also had one in it.

I am pretty sure I bought the last one at Radio Shack, or was it Capitol Radio? In any case, it has been a long time since I have even thought about it.

I might have to find some time and pull out some of my various bits of battery operated test equipment and check the batteries.

You never know what surprises might lurk beneath the covers if left unattended for long periods of time. :^} The color Green comes to mind :^}

You know, it is funny that you should mention the idea of using some of the new cells to make up a replacement battery.

I use two hearing aids and have a large container of used 312 Cells. I keep meaning to try some experiments on them. I have found that they have about 1 Volt or a little less when they will no longer operate in the ears. I also learned that when they fail, I can turn it off for about five minutes and it will self rejuvenate enough to operate again for a while. Often long enough for me to get home and replace it. I try to keep a package in the car, but that is not always reliable as memory is much shorter these days. :^}

I am now getting to the thought that I had while reading this posting.

Radio Shack has them on Sale right now. If you buy two packages, you get one package free. I usually wait for these sales as the little rascals are not cheap and only last about 9 days in normal use.

In fact I bought 3 packages of (16) only today. \$ 10.00 per package. That comes out to about \$.42 each. Then figuring to use 24 cells at 1.2-1.3 Volts for 28.8-31.2 Volts, that comes out to be \$ 10.00 per Battery. And you still have to try to figure out how to connect all of the little buggers. Oh yes, and you have to "Blow Air Across each Cell" to activate it. Don't ask how this works, it is one of those Mysteries of life. :^}

The type 312 Cell is about 1/8" thick and about 1/4" diameter. I had the great idea of using a Soda Straw and Filling it with used Cells to make the ultimate free QRP Power Cell, but I have not yet found one that will hold them. Another thought was to use Brass Tubing and make a paper sleeve for the inside to insulate the cells from the tubing.

Another trick that might work? I thought of drilling a hole in a block of wood and then slicing the block to expose about a third of the cylinder. This would allow loading the cells into the "JIG" and then using a strip of Masking tape or wax to secure them until they could be wrapped in paper with sticky on one side. Rather like rolling a Cigarette in the old days.

Then Slide the battery into the Brass Tube for strength. 24 Cells is kind of long (about 6").

Remember, this has not been tested. YMMV. :^} I would be interested to hear other ideas on Battery Building.

While on the subject of "Battery Building", I am reminded that the "Eveready Alkaline" 9 Volt Batterys contain 6 really slim individual cells. About 1/4" in Diameter. That would mean that it would take two cells out of one 9 volt battery to add to three standard 9v batteries to make up the replacement 30 volt battery. Pretty easy to visualize the size, which would be equal to about 3 of the original 30 volt batteries.

OTOH, It would work fine if you made a plastic container to attach to the back of the meter with velcro or silicon caulk. Not pretty, but it would work for a few years.

You want pretty, or you want Cheap? :^}

QRPp Dx Tu (C) 2002

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -

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Gingell & Company, Ltd.
Locksmith & Handyman Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117

Date: Thu, 10 Jul 2003 21:25:58 -0700
From: Steve Smith <sigcom@juno.com>
To: rohre@arlut.utexas.edu
Cc: qrp-1@Lehigh.EDU
Subject: [154034] Re: CQ Antenna piece W5GI antenna
Message-ID: <20030710.212559.3000.0.sigcom@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

When I look at the diagram of this antenna, I appears to me to be 2 half-waves in phase. I just don't understand why no correction for Vp in the 1/4-wave coaxial transformer/phasing sections. And what happens on 10 meters? It ought to revert to 2 full-waves in phase and should show gain but the feed impedance would be sky high. Of course, changing the balanced feedline section to an odd-multiple on that band should transform it to something manageable. Also seems to me that a balun at the coax to parallel line junction would be helpful.

Or am I all wet?

73.....Steve Smith, WB6TNL
Oxnard, CA USA
"Snort Rosin"

On Thu, 10 Jul 2003 21:00:03 -0500 "Stuart Rohre"
<rohre@arlut.utexas.edu> writes:

> It is 3/2 wave on 20m. A doublet similar to G5RV but claims
> different
> phasing.
>
> To do this, he goes out from center insulator: 1/4 wave with wire,
> then
> quarter wave of coax RG 8x, and shorts the far end, then another
> quarter
> wave of wire. At center, fed by Half Wave of parallel line, then
> goes to
> coax to shack. (No balun at junction).

> Now that quarter wave transmission line transformation in the middle
> of each
> side should look somewhat like a trap? How does energy then get to
> outer
> wire? What am I overlooking? It is supposed to have gain on 20m
> and match
> easily at most bands, ie favorable SWR. He does NOT correct the
> coax
> segment length for Velocity factor of the coax.
> Says it did not work when he tried that. He Does correct the
> parallel line
> half wave for its Vp.
>
> Apparently a number have been fabricated and work as advertised, ie
> multi
> lobes in main pattern, in phase, ease of SWR on several bands, but
> gain is
> on 20m. No claims of gain on higher bands.
>
> Thanks and 72,
> Stuart
> K5KVH
>
>
>
>

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Date: Fri, 11 Jul 2003 07:41:42 -0400
From: Vin Santis <vsantis@earthlink.net>
To: "Tentec (E-mail)" <tentec@contesting.com>
Cc: "QRP List (E-mail)" <qrp-l@lehigh.edu>
Subject: [154035] Thanks
Message-ID: <01C3477F.F41F0C40.vsantis@earthlink.net>

Thanks to all who replied to my inquiry on limited space antennas. It looks like I'll lgo with a shortened dipole (44' to 70') fed with ladder line to a current balun with coax to the tuner.

Thanks again,

Vince Santis, N1VS
Winsted, CT
vsantis@earthlink.net

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.498 / Virus Database: 297 - Release Date: 7/8/03

Date: Fri, 11 Jul 2003 08:34:25 -0400
From: "John L. Sielke" <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [154036] RE: (fwd) Have You Been Harmed By Lead Solder?
Message-ID: <oprr5bvz4n9p1ib@smtp.comcast.net>
Content-Type: text/plain; charset=iso-8859-15; format=flowed
MIME-Version: 1.0

> Hello, my name is Max and I've been Harmed By Lead Solder. (Hi Max!)

That has got to be the most entertaining message I have seen on QRP-L in at least a year! Way to go, Max!

John W2AGN

--

Using M2, Opera's revolutionary e-mail client: <http://www.opera.com/m2/>

Date: Fri, 11 Jul 2003 08:41:53 -0400
From: "John L. Sielke" <jsielke@pobox.com>
To: w5xe@juno.com, qrp-1@lehigh.edu
Subject: [154037] Re: Good Day!
Message-ID: <oprr5b73len9p1ib@smtp.comcast.net>
Content-Type: text/plain; charset=iso-8859-15; format=flowed
MIME-Version: 1.0

You must have made the "Bad Boy" list. If you are on it, anything you send is deleted, unless specifically approved. If you are on the "Good Guy" list, anything you send goes straight to QRP-L, unless specifically deleted.

Guess which list I'm on?

John W2AGN

Date: Fri, 11 Jul 2003 09:06:16 -0400
From: Jim Eshleman <jce0@Lehigh.EDU>
To: jsielke@pobox.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154038] Re: Good Day!
Message-ID: <3F0EB648.3030803@Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Wrong. Everyone's posts are held for approval.

Ray's missing post was HTML which is discarded by the server, so it never got to the approval process.

>

> You must have made the "Bad Boy" list. If you are on it, anything you
> send is deleted, unless specifically approved. If you are on the "Good
> Guy" list, anything you send goes straight to QRP-L, unless specifically
> deleted.

>

> Guess which list I'm on?

>

> John W2AGN

Date: Fri, 11 Jul 2003 09:01:50 -0400
From: "Edward Mullin" <kb1hys@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [154039] OP Amp VFO?
Message-ID: <Law12-F12VGSLSNhIIq00002781@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Found a couple of schematics for using Op Amps as oscillators, A hartley and a Colpits. I was thinking of experimenting with the ubiquitous 741 IC. or the dual 741 package and get a VFO and a buffer stage. Probably would use a permiablity tuned Colpitts. Anyone tried this? any ideas about what freq. range would be obtainable? A web search found alot of sites, mostly .edu's didn't find any hams using it so I wonder if it's any good for HF?

73's

Ed-KB1HYS

STOP MORE SPAM with the new MSN 8 and get 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Fri, 11 Jul 2003 08:56:12 -0400 (EDT)
From: <ah7i@atl.org>
To: <jacksonharbor@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154040] Re: OT: A new source for surplus electronic parts
Message-ID: <Pine.LNX.4.33.0307110854510.20886-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Been trading parts with Brad for years.
A-1 all the way.
Even includes diskettes with data sheets if he has and you need.
-Bob
ah7i

On Thu, 10 Jul 2003 jacksonharbor@att.net wrote:

> Fellows and Gals -
>
> I recently received an order of parts from a new (for me)
> seller of surplus electronic parts, Brad Thompson, AA1IP.

Date: Fri, 11 Jul 2003 09:25:07 -0400
From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [154041] RE: OP Amp VFO?
Message-ID: <000101c347af\$d8b22bb0\$7a032a0a@nyroc.ametek.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ed,

With a 741 you're probably not going to get much outside the audio range.
741s aren't known for being fast. You should probably look for some of the
100MHz+ amplifiers that are available nowadays.

I've noticed several .edu sites that use an op-amp circuit to illustrate
oscillator configuration and behavior. I suspect it's because they teach the
kids op-amps first. Then, once the kids are familiar with how to achieve
gain, they show how to wrap feedback around it to get it to oscillate. Let's
face it, an op-amp (especially the so-called "ideal" amplifier so loved by
professors) is a lot easier to explain than a simple transistor stage.

Dave

David Hinerman WD8CIV
wd8civ@worldnet.att.net

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Edward Mullin
> Sent: Friday, July 11, 2003 9:02 AM
> To: Low Power Amateur Radio Discussion
> Subject: OP Amp VFO?
>

>
> Found a couple of schematics for using Op Amps as oscillators, A
> hartley and
> a Colpits. I was thinking of experimenting with the ubiquitous
> 741 IC. or
> the dual 741 package and get a VFO and a buffer stage.
> Probably would use a permiablity tuned Colpitts.
> Anyone tried this? any ideas about what freq. range would be
> obtainable? A
> web search found alot of sites, mostly .edu's didn't find any
> hams using it
> so I wonder if it's any good for HF?
>
> 73's
>
> Ed-KB1HYS
>
> -----
> STOP MORE SPAM with the new MSN 8 and get 2 months FREE★
> <http://join.msn.com/?page=features/junkmail>
>

Date: Fri, 11 Jul 2003 09:30:40 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <jsielke@pobox.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154042] Re: Good Day!
Message-ID: <002701c347b0\$a00b09c0\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> You must have made the "Bad Boy" list. If you are on it, anything you
send
> is deleted, unless specifically approved. If you are on the "Good Guy"
> list, anything you send goes straight to QRP-L, unless specifically
> deleted.
>
> Guess which list I'm on?
>
> John W2AGN

If there were list, I'd be on the OH NO! list!

Date: Fri, 11 Jul 2003 08:33:18 -0700
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: <kb1hys@hotmail.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154043] Re: OP Amp VFO?
Message-ID: <003401c347c1\$c0d99110\$0400000a@wa5bdu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I don't think you could get into the HF range with an op-amp. The bandwidth is just too limited. This may be deliberate in the form of what they call "compensation". Most op-amps are internally compensated.

It would be interesting to know just how high you *could* go with a wide bandwidth op-amp though, as oscillator or amplifier either one.

72--Nick, WA5BDU

----- Original Message -----
From: "Edward Mullin" <kb1hys@hotmail.com>
Subject: OP Amp VFO?

> Found a couple of schematics for using Op Amps as oscillators, A hartley
and
> a Colpits. I was thinking of experimenting with the ubiquitous 741 IC.
or
> the dual 741 package and get a VFO and a buffer stage.

Date: Fri, 11 Jul 2003 06:41:13 -0700 (PDT)
From: Jim Cluett <w1pid@yahoo.com>
To: qrp-1@lehigh.edu
Cc: neqrp@jonal.net
Subject: [154044] I am a lobster brain
Message-ID: <20030711134113.21550.qmail@web11605.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

It is pouring rain. Sheets of rain.
I am trying to explain to the XYL
why I am going camping in Maine.
I have loaded up the Jeep with camping
gear. I have a little tent. Lobstercon?
What IS Lobstercon? What am I going to
do in the pouring rain? She is singing at
the top of her lungs... The rain in Maine
comes mainly on the plain! She's packing
sandwiches. Making sure I have extra socks.
Am I going to sit in the tent all day looking
out at the rain? Why DO I want to go? I have
plenty of radios at home where it's dry.
Yes, but Seabury Lyon is going to fly a kite!
In the rain? Yes, and Melt Solder will be there.
Will he melt in the rain? No. And Joel the
displaced Cajun will be there. Can he displace
all the rain?
I can not answer all these questions. Perhaps I am
a lobster brain.
w1pid

Do you Yahoo!?
SBC Yahoo! DSL - Now only \$29.95 per month!
<http://sbc.yahoo.com>

Date: Fri, 11 Jul 2003 13:43:46 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-1@lehigh.edu
Cc: jacksonharbor@att.net, Brad.Thompson@valley.net
Subject: [154045] Re: OT: A new source for surplus electronic parts
Message-ID: <F3I9dm5UxP9Fekzabtn0000068c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Chuck Olson, WB9KZY (jacksonharbor@att.net) opined:

>Fellows and Gals -

>I recently received an order of parts from a new (for me)
>seller of surplus electronic parts, Brad Thompson, AA1IP.

>Brad had sent me a large list by email of the items he has
>for sale, Once I saw the 100 leds for a buck I was

>hooked ;) I also purchased some AM radio (500 pf) type varactors (MV1401)
>and a bunch of other goodies including some 2n2219
>transistors which look like normal TO-92 NPN transistors
>except they have a little built-in metal tab, unique !

>So if you're interested in purchasing surplus
>electronic parts at reasonable prices, contact
>Brad via email at: Brad.Thompson@valley.net

>Best Regards,

>Chuck Olson, WB9KZY
>Jackson Harbor Press
><<http://jacksonharbor.home.att.net>>

Yes, indeed! Brad Thompson definitely has a hidden treasure of useful, interesting, and perhaps even questionably useful yet interesting parts. And I would add that he is very knowledgeable about obsolete and esoteric electronics subjects (I first became acquainted with Brad Thompson on the Glowbugs list, so that says something :-). This is not to say that his available parts are all obsolete and esoteric ... but he has those, too ... AND the datasheets in many cases! Well, hey, he's a bookseller, right?

Lotsa good stuff, FB and all that. Wholehearted recommendation from this satisfied customer!

Brad KG6IOE

MSN 8 helps eliminate e-mail viruses. Get 2 months FREE*.
<http://join.msn.com/?page=features/virus>

Date: Fri, 11 Jul 2003 09:43:05 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [154046] Re: Good Day!
Message-ID: <20030711.094311.9118.3.kc8aon@juno.com>

I have never seen a post on QRP-L that offended me except the ones where the whiners get on and complain about someone else's post ! That's the real problem with QRP-l, if these idiots could learn to mind their own business and take into consideration that their opinions are not the only ones that exist in the universe, then QRP-L would be a far better list. I have even had one of these idiots email me direct and really flame me hard because of a simple mis spelled word that was due to a typing error

! GET OVER IT PEOPLE ! Below, I have listed some rules for suggestion, and if they were followed, then we wouldn't even need a moderator !

1. If it wasn't directed to or at you, don't reply to it, and don't comment on it to the list or email the person telling them how wrong they are. (I know. I'm breaking this one now)
2. If you don't like it - delete it !
3. If the post states the person's opinion, take time to consider that they are entitled to their "own" opinion, and they probably don't care what your opinion is. Leave it alone !
4. Don't worry about petty little things like mis spelled words, most folks have enough brains to figure out what it means anyway. No one is perfect !
5. When replying to a post, take the time to think ! "Would I really like to have someone reply to ME this way ?" If you wouldn't, then don't do it !
6. Think ! "Is my post really on topic?"
7. And last, but not least, use a little common sense ! (I know this is tough for some)

"Before you flame me, remember ! I really don't care that you don't like my opinion, so you'll be wasting your time due to the fact that I delete most replies of a flamatory nature !" I won't take the time to read your whining !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
QRP-L #2112, FPqrp #33, AR QRP #269
QRP'ers DEPEND ON SKILL - NOT RAW POWER !

On Fri, 11 Jul 2003 09:06:16 -0400 Jim Eshleman <jce0@Lehigh.EDU> writes:
>Wrong. Everyone's posts are held for approval.
>
>Ray's missing post was HTML which is discarded by the server, so it
>never got to the approval process.
>
>>
>> You must have made the "Bad Boy" list. If you are on it, anything
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>> send is deleted, unless specifically approved. If you are on the
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>> Guy" list, anything you send goes straight to QRP-L, unless
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>> John W2AGN
>
>

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Date: Fri, 11 Jul 2003 10:15:50 -0400
From: Michael Babineau <michael.babineau@sympatico.ca>
To: qrp-l@Lehigh.EDU
Subject: [154047] Re: Short radials
Message-ID: <2C9CCECF-B3AA-11D7-893A-00039309268A@sympatico.ca>
Mime-Version: 1.0 (Apple Message framework v552)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

A few additional points on Dr Megacycles posting ...

>Put out a length of wire in the space you have for radials. At the
>center of this wire, attach one end of a loading coil.

What Jim is suggesting is also covered in pretty good detail
in Moxon's Book "HF antennas for all locations".

Moxon suggests for 20M that you use two counterpoise
wires about 60 inches long each and a single coil of about
3 microhenries to resonate. He suggests that elevated
tuned counterpoises as short as 1/20 of a wavelength
will work very well with a high efficiency .. if you go smaller
then you really start to notice decreased bandwidth.

Elevating the counterpoise
about 4ft for 20M (and a proportional distance for lower bands)
will minimize ground losses. Also ... it is important that you
take steps to ensure that your feedline doesn't radiate as

that will mess things up. What you are trying to achieve is equal currents in each of the counterpoise wires.

I have been doing some playing around with a similar configuration using Buddipole components to build a Buddistick vertical, and the extra coil and some additional whips to make the tuned counterpoise system.

I need to spend some more time with the antenna analyzer to make a chart of coil tap position and whip lengths corresponding to the various bands so that I can easily tune it in the field. So far I have only played with it on 20m and it seems to work well.

Michael VE3WMB

Date: Fri, 11 Jul 2003 10:38:49 -0400
From: Michael Babineau <michael.babineau@sympatico.ca>
To: qrp-l@Lehigh.EDU
Subject: [154048] Re: Limited space antenna
Message-ID: <62C38FFC-B3AD-11D7-893A-00039309268A@sympatico.ca>
Mime-Version: 1.0 (Apple Message framework v552)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

Vin :

You don't mention how much space that you have to play with.

If you have the room you might consider a half-size dipole (ie a 40m dipole) fed with twin lead or ladderline and fed with a tuner. This was the basis for the NJQRP 80 Squirt antenna. This will still be an efficient radiator at 75/80M. You can bend the legs around however to make the antenna fit either as a dipole (possibly with drooping ends) or an inverted vee with the end of the wires running horizontally if necessary. Given that your goal isn't working DX a low height short dipole or inverted Vee should work fine if you have the space.

As some others have posted ... Hamsticks have pretty poor efficiency on 80m .. but that being said anything will radiate so a hamstick dipole will work for 80 but possibly not as well as some other options.

Good Luck

Michael VE3WMB

Date: Fri, 11 Jul 2003 11:25:53 -0400
From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [154049] RE: Good Day!
Message-ID: <000001c347c0\$b7742140\$7a032a0a@nyroc.ametek.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> 1. If it wasn't directed to or at you, don't reply to it, and don't
> comment on it to the list or email the person telling them how
> wrong they are. (I know. I'm breaking this one now)

Rick,

I have to offer a "yeah, but..." to this point. If someone has given false information (NOT a contrary opinion, but an outright mistake), I think it's appropriate to gently correct it. A lot of people come here to learn, and allowing them to learn something that's wrong will only cause them problems later when they have to un-learn it.

Now, I haven't seen a lot of blatantly incorrect statements on this list. Differences of interpretation, sure - but even then I think offering "another view" is helpful.

It all depends on how you do it. Getting upset about it leads to mistakes. Coming in waving a sword like Conan the Barbarian and thrashing someone who doesn't toe the line is going to get you marked as a hothead. Calling someone an idiot doesn't help, either. Think in terms of negative feedback to stabilize an amplifier - use just enough to offset the error. Too much and the whole thing starts oscillating.

I agree with all your other points, by the way.

Dave

Date: Fri, 11 Jul 2003 11:31:39 -0400

From: "sslyon" <sslyon@megalink.net>
To: <w1pid@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154050] lobster brain
Message-ID: <001a01c347c1\$8639c8e0\$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You're in good company, Jim... same her t'other side of the border. I've just come in from STARTING to load the pickup, soaked to the skin... down the neck, up the sleeves of the rain gear... and the worst part is that I can't complain 'cause XYL is primed to go off on the same litany.

The radar loop indicates possibility that the site on the coast may stop raining tho, and only a chance of a T-storm tomorrow. That reminded me to bring the crowbar for grounding antlers! Managed to get a 20 gallon cooker and a 100k BTU burner for you know who :)

I'll also bring some lumber and an extra tarp to accommodate a camper or two if it's necessary to get off the ground, esp. tonite. Will be leaving in about an hour -by 1:00PM EDST, ETA 3:30pm. See you there!

73

aa1my

Date: Fri, 11 Jul 2003 08:40:34 -0700
From: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [154051] RM/MiniBoots - Again
Message-ID: <08D18BEFE0F59E4EB2BB78107B5A5271017377EE@blaze.bccsc.gov.bc.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I'm scratching my head again with this combo. This time I'm at a complete loss as to what's going on. I finally managed to eek out 800 milliwatts from my RM-20 using a 2N3553 (with heatsink) and a 2.7 ohm resistor at R18. According to those in the know, this should be enough drive for the Miniboosts. So, while trying out this set-up, here's what happened.

First, I hooked up the RM to the amp. The RM is on 20 meters. With the bandswitch in the 20 meter position and the trimpot cranked full on, I get just under 700 mW out, less than the RM puts out by itself. With the switch in the 40 meter position, there is no output, as expected. I measured the

RF input at the RF IN point on the amp and the reading is 6.3 volts RMS a bit lower than the optimum 7 volts but enough, so I've been told, to drive the amp. So, something else must be haywire. I checked, checked and re-checked the wiring, soldering, etc. and could find nothing wrong there. I carefully went through all the measurements as per the table on the back page of the manual. All measurements were acceptable except the DC voltage on the drain of the MOSFET. When in tx, the voltage drops to 4.38 volts. I can't figure out why this is happening.

As an additional experiment, I hooked up my little 40 meter transmitter to the amp. It puts out a solid 1.2 watts and should have had no problems with the amp. Not so. With the bandswitch on the amp in the 40 meter position and the 40meter trimpot cranked wide open, the amp is putting out just under 2 watts. Now here's the real kicker. With the bandswitch in the 20 meter position, I get full output from the amp!?!?! Again, I tripple checked the wiring and all appears to be ok. I started at the RF IN point on the amp and checked each part to determine if there was a faulty one. All parts checked OK. I'm not sure how to check the MOSFET so I didn't do anything with that other than make sure the connections were ok. What the #\$%\$#@!%^ is going on here??

So far, I've spent at least two hours a night all this week trying to sort this out and have been unsuccessful. So, I'm appealing to those on the list who have built the amp and who have a better knowledge of theory than I to help me out. I've obviously been looking at it so long I can't see it any more. What am I missing?

Thanks for any and all help.

Doug VA7DD

Date: Fri, 11 Jul 2003 11:56:48 -0400
From: "John L. Sielke" <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [154052] Fox Hunt/HB Sprint Overlap
Message-ID: <oprr5k8yj0n9p1ib@smtp.comcast.net>
Content-Type: text/plain; charset=iso-8859-15; format=flowed
MIME-Version: 1.0

I had asked about this yesterday, but no response, so I guess it will be just "fight it out." Hope there are no resulting ill feelings if a contest QSO qrms the fox, or vice versa.

See you all on the HB Sprint. Breaking out some of my less-used rigs; TAC-1 on 80, GQ40 on 40, DSWII on 20 (new, not really less used), TT 1315 on 15

(if it opens).

John W2AGN

Date: Fri, 11 Jul 2003 10:59:58 -0700
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: <kc8aon@juno.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154053] Re: Good Day!
Message-ID: <011a01c347d6\$3e756400\$0400000a@wa5bdu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Rick, I really want to follow your guidance and improve my attitude. But how do I distinguish between other people's whining, my whining, and your whining?

TNX & 72--Nick, WA5BDU

----- Original Message -----
From: "Rick McKee" <kc8aon@juno.com>

... edited to keep only the good stuff:

> I have never seen a post on QRP-L that offended me except
> if these idiots
> I have even had one of these idiots
> ! GET OVER IT PEOPLE !
> Below, I have listed some rules >
>
> I really don't care that you don't like my opinion,
> I won't take the time to read your whining !
>
> 72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl

Date: Fri, 11 Jul 2003 09:26:05 -0700
From: "William Phinizy" <k6whp@verizon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [154054] Extra Class Question Pool
Message-ID: <000501c347c9\$22b65880\$8a62e043@sydelpgnr79gmd>

MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

My lovely bride has succumbed to the intense pressure and agreed to upgrade from Tech+ to General and Extra. Only problem is, I have an ARRL Extra Class manual volume seven and they include the new question pool in volume eight. I went through the new pool versus the old pool and noted some differences but not a lot. Two questions:

(1) Is there a definitive itemization of the difference in the question pools?

(2) Do you suppose it would be o.k. to study with volume seven of the ARRL manual and then take the on-line tests for Extra to freshen up?

I mean, the V7 I have is brand new and electrons still pretty much behave the same as they have always done, right?

..what we hams go through to save a few bucks!

Thanks in advance.

Bill, k6whp

Date: Fri, 11 Jul 2003 11:42:03 -0500
From: "Michael Melland" <w9wis@charter.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
<njqrp@njqrp.org>
Subject: [154055] OT: Anyone Need Win 95B or Word Perfect 7 Suite ?
Message-ID: <000d01c347cb\$5d0be660\$0200a8c0@computer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone needing a new in box copy of either Windows 95B Upgrade or Academic full version of Corel Word Perfect Suite 7 (Word Perfect, Quattro Pro, Presentations) for Win 95 or NT drop me a note. I have 3 sealed boxes of each... cheap. \$10 each plus US Mail.

Figured someone might be needing a real licensed copy <grin>.

Mike

--

Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
ars #1075 - <http://webpages.charter.net/w9wis/>

Date: Fri, 11 Jul 2003 12:36:39 -0400
From: "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
To: <kb1hys@hotmail.com>
Cc: "qrp-l" <qrp-l@lehigh.edu>
Subject: [154056] Re: OP Amp VFO?
Message-ID: <000901c347ca\$9aa9efe0\$07ea7182@mcmaster.ca>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Ed,

 You might convince an op-amp to oscillate up to about
one Megahertz - not much higher.

 Op-amps have a reputation for extremely high gain. They DO,
for very low frequencies. Gain starts dropping for most at a few
hertz, and slopes to nothing at Megahertz.

For a 741 op-amp, here's how voltage gain varies with frequency:

freq	gain
1Hz	150000
10Hz	90000
100Hz	9000
1KHz	900
10KHz	90
100Khz	9
1MHz	0.9

A single transistor like 2N2222a or 2N3904 doesn't have well-
defined voltage gain - current gain is of most interest. Current
gain isn't high (perhaps 100) but stays constant up to
hundreds of KHz, then slopes off similar to an op-amp, down
to nothing at hundreds of MHz.

 The result is that a single transistor has more gain at HF
than the vast majority of op-amps.

There's a more subtle reason to avoid op-amps in Hartley or Colpitts HF oscillators. Many transistor oscillators conduct feedback in short, intense spurts of current. Op-amps work best when conducting 100% continuously.

Date: Fri, 11 Jul 2003 13:05:04 -0400
From: "John L. Sielke" <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [154057] Re: Good Day!
Message-ID: <oprr5oeqx6n9p1ib@smtp.comcast.net>
Content-Type: text/plain; charset=iso-8859-15; format=flowed
MIME-Version: 1.0

> Rick, I really want to follow your guidance and improve my attitude. But
> how do I distinguish between other people's whining, my whining, and your
> whining?
> TNX & 72--Nick, WA5BDU

--
What I find amazing is that if I posted such a 'flamatory' message, it would be deleted by the moderator. Is this not a double standard?

John W2AGN
(whining)

Date: Fri, 11 Jul 2003 12:26:48 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Steve Smith" <sigcom@juno.com>
Cc: <qrp-l@Lehigh.EDU>
Subject: [154058] Re: CQ Antenna piece W5GI antenna
Message-ID: <007401c347d1\$9c09f0e0\$4e100a0a@rohredt2000>

Good points Steve, about balun and the gain on higher bands than 20m.

Now this is just informed opinion:
I would answer the balun question with the reference to the G5RV paper in ARRL Antenna Compendium I and W6SAI Bill Orr's HF Antenna Handbook where it is quoted that it was found that the weight of a balun on the twin feeder was undesirable, while the non use of the balun with typical length of feeder to the shack did not introduce extraneous RF to the shack, as you would otherwise expect. Of course, that could vary with actual length of

coax, distance between antenna and shack, etc. The trade off of not having a perfect balance to coax transition was considered acceptable.

It is just like the old days. I used to run dipoles fed with 72 ohm twin lead, and terminate the twin lead without balun, into the coax connector of a Pi Net transmitter. It loaded up just fine, I did not notice any RF in the shack problems. In those days, as long as you could dip the plate current in the Tank circuit, and advance the Pi Net load capacitor to increase current up to your usual plate input power, you were OK. Who cared about SWR? What was the impedance of the end of the feeder? Who knew or cared, and we worked DX.

73,
Stuart
K5KVH

Date: Fri, 11 Jul 2003 13:46:32 -0400
From: Jim Eshleman <jce0@Lehigh.EDU>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154059] Re: Good Day!
Message-ID: <3F0EF7F8.8010801@Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

>> Rick, I really want to follow your guidance and improve my attitude. But
>> how do I distinguish between other people's whining, my whining, and your
>> whining?
>> TNX & 72--Nick, WA5BDU
>
> --
> What I find amazing is that if I posted such a 'flamatory' message, it
> would be deleted by the moderator. Is this not a double standard?
>
> John W2AGN
> (whining)

You may have used-up your quota of "flamatory" messages long ago. At any rate I'll be discarding any more posts on the "whining" topic. I think someone mentioned that a list exists elsewhere just for that topic.

73
Jim N3VXI

Date: Fri, 11 Jul 2003 10:42:02 -0700
From: "William Phinizy" <k6whp@verizon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [154060] Re: Extra Class Question Pool
Message-ID: <002501c347d3\$be4b3fe0\$7d60e043@sydelpgnr79gmd>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Many thanks to those who responded. The preponderance of advice was that my wife proceed with V7 and use the study pool and exam questions on the web.

This is not to denigrate the ARRL license manuals. I guess it is like learning C++ and MFC using Microsoft Visual Studio 5.0 is just as good for that purpose as Microsoft 6.0. For that matter, the old 16-bit compiler (v1.52) is (almost) free and will help one get started.

How did I get off on that tangent? In any event, my personal opinion is that the ARRL manuals also serve as a good reference manual after the fact. I still have (and use) my old Extra class manual I got in 1995.

Ain't life grand?

Thanks again to all.

Bill, k6whp

Date: Fri, 11 Jul 2003 13:44:14 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: <qrp-l@lehigh.edu>
Subject: [154061] ARRL Amateur Radio Interference Assessment project
Message-ID: <721D3436A7C2B344A301FD4A413C71A9016F34AC@kosh.arrlhq.org>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi, Guys and Gals,

At the FIDM this year, Greg Lapin did a short presentation on the ARRL Amateur Radio Interference Assessment project. This project uses amateur equipment to make measurements of radiated field strength, by calibrating a receiver against a signal generator and using that level as a baseline for making measurements.

A few folks signed up to be ARIA volunteers. If you were among them, please send me an email, so I can make sure to include everyone. If you didn't sign up, but want to be part of this, either by making measurements at your stations or by going out into the world and literally going the extra mile, email me, too, and we can sign you up. If you have access to EMC receivers and spectrum analyzers, you can do even more, and ARRL wants to hear from you!

The requirements for amateur-equipment measurements are:

Receiver of known sensitivity/noise floor (measured, but specified will give reasonable results)

Antenna of known gain (specified, modeled or "standard" antenna like a half-wave dipole)

Feed line of known loss (measured or calculated)

Step attenuator, or at least a few fixed attenuators, 10 dB or so

RMS reading voltmeter or computer with sound card -- might have to be Windows 95/98

73,=20

Ed Hare, W1RFI

ARRL Lab

225 Main St

Newington, CT 06111

Tel: 860-594-0318

Internet: w1rfi@arrl.org

Web: <http://www.arrl.org/tis>

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Date: Fri, 11 Jul 2003 10:49:31 -0700
From: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [154062] Re: RM/MiniBoots - Again
Message-ID: <08D18BEFE0F59E4EB2BB78107B5A5271017377F2@blaze.bccsc.gov.bc.ca>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Just to alleviate any concerns, yes, I have done the proper grounding of the Q2 emitter.

Doug VA7DD

Date: Fri, 11 Jul 2003 07:57:01 -0400
From: "Walter D. Amos" <waltk8cvamosqrp@gbronline.com>
To: "Qrp-L List" <qrp-1@lehigh.edu>
Subject: [154063] Batteries and charging
Message-ID: <000601c347d5\$2303bec0\$b5ecbfcf@WALTK8CV>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

In the dark ages at work in the phone company we used to have CONCENTRATORS , and that is another story, but the things required BATTERIES and we charged them for the field forces and used RESISTANCE LAMPS in series with the darn dead things to limit the current. The lamps would be very bright with a dead battery and slowly go out as they came up to voltage. Naturally this circuit was ENGINEERED in the IVORY TOWER OF BELL LABS so it must have been the right and proper thing to do so you all must stop these post and adopt this method as it is " BELL SYSTEM PRACTICES " and came from the IVORY TOWER and must be right and correct ! If I remember the lamps were around 300 ohms and naturally the voltage was 48 V and the batteries were 48 V batteries as EVERYTHING IN THE WORLD OF BELL ran on 48 VOLTS !

A simple light bulb could be used for this ! This is one of those REVELATIONS that come along once in a life time, seize upon it and go forth and DEVELOP CIRCUITS

Walt K8CV Royal Oak, Mi.

Date: Fri, 11 Jul 2003 13:00:26 -0500
From: jwatkins@birch.net
To: qrp-l@Lehigh.EDU
Subject: [154064] Many thanks for helping with QRP WAS
Message-ID: <1057946426.3f0efb3a870b4@webmail.birch.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

All,

I have read this reflector for about a year and was impressed with how everyone works to help people find parts, fix things and solve problems. So when I got to my last few states for QRP WAS I posted a note last week.

Wow was I impressed. I was swamped with emails from the midwest from states that I needed. Emails came from hams from Nebraska, Iowa and Oklahoma. Thanks to the work and suggestions of many I did log my last states;

KQOI Mark from Iowa
WB0QQT Steve from Nebraska
K5KW Don from Oklahoma

Thanks go to others who offered their help or made attempts during the many storms this week; Steve KC5TTY, Rob W0JRM, Bart N5WL, Kevin K9IUA, Ron WA0MWW, Dale N0XAS, Tom K5OI, and John NU0I.

What a thrill to finish a 6 month journey via QRP. Looking at the log I only have 10 states above 1 watt, hmmm guess that would be my next goal. I learned alot, developed better skills as a ham and met lots of great people on the way.

Great hobby ham radio! 72's John N0EVH Missouri

Date: Fri, 11 Jul 2003 11:06:14 -0700
From: K7VO <k7vo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [154065] Re: Extra Class Question Pool
Message-ID: <200307111110614.74d16645.k7vo@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

On Fri, 11 Jul 2003 09:26:05 -0700

"William Phinzy" <k6whp@verizon.net> wrote:

> I have an ARRL Extra Class manual volume seven
> and they include the new question pool in volume eight. I
> went through the new pool versus the old pool and noted some
> differences but not a lot.
>
> (2) Do you suppose it would be o.k. to study with volume
> seven of the ARRL manual and then take the on-line tests for
> Extra to freshen up?

I would say yes. Encourage (don't pressure :) her to take the online tests after studying and see how she does. The ones at <http://www.qrz.com> were really good when I was studying for my extra three and a half years ago, and I assume they still are. They will let her know not only how she scored, but what her strong and weak areas are. If it turns out that the weak areas are ones where the test has changed you can always pick up a newer book later.

Good luck to her!

72/73,
Caity
K7VO

Date: Fri, 11 Jul 2003 12:23:57 -0500
From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-l" <qrp-l@lehigh.edu>, "FPigs" <fpqrp-l@mpna.com>
Subject: [154066] The First Annual FP sprint
Message-ID: <07c601c347d1\$364a93e0\$0077da0c@mchsi.com>

Ladies and Gentlemen;

I just wanted to get a note out to everyone to say thank you for all the awesome suggestions. I am accumulating all suggestions and information and I will get another post out this weekend with all sprint name suggestions and proposed dates.

At that point I will be looking for some honest feedback as to what the membership would like to see terms of a name. It's obvious that we need to settle on a single name and I don't want to upset anyone who has offered suggestions.

In absence of a majority vote, I will select something that I think

supports the clubs mission and will add to participation in an event we can all be proud of.

For those of you on QRP-L that do not have access to the FP reflector, I'm posting this to let you know that the Flying Pig QRP Club will sponsor an upcoming sprint.

This is done as our method of supporting the use of QRP and the ART of using CW as a means of communication.

(digital and SSB categories will be accepted)

Please keep your eye's and ear's opened as we would enjoy as much participation as we can get.

For the membership:

Keep those cards and letters coming !!

72 / 73 to all and a big ole 00 to the gang

Jerry N0JRN

FP # 546, ARS # 923, ARCI # 11049, ARRL,
Springfield, Mo. <http://home.mchsi.com/~n0jrn/>
MP + # 8, K 1 # 608, SW 20 +, TT 1340 , RM 20 &
40, Tiny Tornado 20, 30, 40, 80, SMK - 1
and so on and so on

Date: Fri, 11 Jul 2003 11:25:41 -0700
From: K7VO <k7vo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [154067] Manuals and schematics back up on Mizuho site
Message-ID: <20030711112541.264a7977.k7vo@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Hi, everyone,

I have restored all but two of the Mizuho manuals and schematics to the website, and I have also posted new ones that weren't there before. I will be continuing to add more as time permits. All the popular items (MX series handhelds, KX-QRP antenna tuner, etc...) should have manuals (if they exist in English) and schematics posted as of now.

The website URL is: <http://www.mizuhoradio.com>

Thanks and 72/73,
Caity
K7V0

Date: Fri, 11 Jul 2003 15:14:55 EDT
From: KZurawski@aol.com
To: w5yr@att.net, qrp-1@lehigh.edu
Subject: [154068] Re: battery backup for home station
Message-ID: <1d6.d9efabd.2c4066af@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Been following this battery backup thread. Have u guys heard about not having a battery hooked up to an astron power supply while it is turned off. Some claim u can pump too much current into the 723 chip. Dont really know if this is valid. Has anyone seen this failure? Here is more details:
https://164.235.4.115/RS_Battmod.cfm

I power shack off two Trojan 105 golf cart batts, 225AH, charged by 70W of solar and 150W wind generator that I homebrewed. By the way, excellent page on building homebrew wind generators is at otherpower.com, also alot of good battery imfo there.

Thanks
Ken WB9QDL
Colorado

Date: Fri, 11 Jul 2003 12:26:48 -0700
From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [154069] Re: OP Amp VF0?
Message-ID: <7FD24C15A06DD511BF9E00D0B73E99520D734AB4@az33exm05.corp.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

There are op-amps that very fast. An example is one by TI

<http://focus.ti.com/docs/prod/productfolder.jhtml?genericPartNumber=THS3202>

This op-amp is good to 2000 MHz. Much faster than 1 MHz 741!

>There's a more subtle reason to avoid op-amps in Hartley or
>Colpitts HF oscillators. Many transistor oscillators conduct
>feedback in short, intense spurts of current. Op-amps work
>best when conducting 100% continuously.

This raises an interesting point. Most the FET and transistor
oscillators seem to operate in something like a class C type mode
where for most of the RF cycle they are off, and turn on only
for a brief instant, which is highly non linear.

On the other hand, an oscillator using a high speed op-amp
could actively follow the sine wave input and possibly end up
creating a cleaner signal.

The problem is creating gain control in the feedback that would
keep the maximum oscillation amplitude from getting too large
and clipping.

- Dan, N7VE

Date: Fri, 11 Jul 2003 15:30:10 -0400
From: "Bob & Janet" <jbcraft@adelphia.net>
To: "Walter D. Amos" <waltk8cvamosqrp@gbronline.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154070] RE: Batteries and charging
Message-ID: <AGEJJBFLPLHMOECFDINOEEOKCGAA.jbcraft@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

and Motorola used to charge HT220 batteries off the 110v mains thru a diode
and lamp. The lamp was the current limiter and when the battery was low,
the lamp was bright (lots of little electrons getting very excited) and when
the battery was charged, the little electrons had their fill and were not as
active.

Date: Fri, 11 Jul 2003 15:41:04 -0400
From: Fred Lesnick <flesnick@tbaytel.net>

To: QRPL <qrp-1@Lehigh.EDU>, QRP Canada <qrp-canada@neale.gpfn.sk.ca>,
beacons <hfbeacons@explore.plus.com>
Subject: [154071] July 11/03 1915 z bandscan
Message-ID: <3F0F12D0.DE367B8C@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

11 Jul (18) I=123, A= 11, K= 5, R=137 Mod,G2=)No storms

Not much to report guys, the band sare the absolute pits.

160m- no signals

80m- no signals

40 m- 7.030 VE30U (559) working K01C (229)
7.141 KA9KWR at 579 calling cq (cw)
7.298 voice comms at 5x7

30m- no signals

20m- 14.031 W2NT (UTICA,NY) 539 working K0RDW ,not heard at all
14.058 WA0FGV (S.D) calling cq FISTS
14.070.5 PSK KB0E (MO.) with 589 signal

17m- no signals

15m- no signals

12m- no signals

10m- no signals

Not a beacon to be heard, no freebanders, no repeaters.

Lets hope things pick up some.

Fred
VE3FAL
Thunder Bay, Ontario
EN58df

Date: Fri, 11 Jul 2003 15:51:09 -0700
From: "Dave Benson" <nn1g@earthlink.net>
To: <qrp-1@lehigh.edu>

Subject: [154072] Lobstercon: K1T operation
Message-ID: <001c01c347fe\$ec98ad80\$60624b43@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The Lobstercon gang will be operating special-event station K1T from Thomas Point Beach near Bath, Maine from today- Friday, July 11, through early Sunday, July 13th. We'll be on the usual QRP frequencies. Look for us on 10.115 as well, especially late Saturday, as a new crop of RockMites comes to life.

If you're on the fence about attending this event, this is a 'don't miss' affair! Conditions permitting, we should be putting out good signals, thanks in large part to Seab, AA1MY's 'antenna magic'. Rex Harper, W1REX has regaled us all with tales of plentiful lobsters. He's not kidding- the feeding-frenzy at Lobstercon has to be seen to be believed!

[For further information, see <http://www.wulfden.org/NVQS/index.shtml> and select 'Calendar']

If you're not able to make the event, we'll miss you! If you're able to work us, we plan to provide a custom photo QSL card commemorating the contact. It'll be unique and it'll be memorable.

73- Dave Benson, K1SWL

Date: Fri, 11 Jul 2003 15:20:25 -0500
From: KD5NWA <KD5NWA@cbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154073] Re: [ham] Re: OP Amp VFO?
Message-ID: <5.2.0.9.0.20030711151659.00a77af0@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

That's why many sine wave oscillators, include a form of AGC to control the feedback, a filament lamp or opto-couplers being very popular specially with Twin-T oscillators.

At 02:26 PM 7/11/2003, Tayloe Dan-P26412 wrote:

>There are op-amps that very fast. An example is one by TI

>

><http://focus.ti.com/docs/prod/productfolder.jhtml?genericPartNumber=THS3202>

>

>This op-amp is good to 2000 MHz. Much faster than 1 MHz 741!

>

> >There's a more subtle reason to avoid op-amps in Hartley or
> >Colpitts HF oscillators. Many transistor oscillators conduct
> >feedback in short, intense spurts of current. Op-amps work
> >best when conducting 100% continuously.

>

>This raises an interesting point. Most the FET and transistor
>oscillators seem to operate in something like a class C type mode
>where for most of the RF cycle they are off, and turn on only
>for a brief instant, which is highly non linear.

>

>On the other hand, an oscillator using a high speed op-amp
>could actively follow the sine wave input and possibly end up
>creating a cleaner signal.

>

>The problem is creating gain control in the feedback that would
>keep the maximum oscillation amplitude from getting too large
>and clipping.

>

>- Dan, N7VE

Cecil
KD5NWA

Date: Fri, 11 Jul 2003 15:23:16 -0500

From: "Boulineau, Lee" <lee.boulineau@attws.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [154074] RE: OP Amp VFO?

Message-ID: <90B09553A615CE4192A646D8CFA67DA8428F22@TX-MSG05-
CCC.wireless.attws.com>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

content-class: urn:content-classes:message

Would this be analagous to an AGC signal?!?! - perhaps a buffer stage =

could provide feedback to the op-amp to keep the gain =
adjusted.....

Lee N4MVL

-----Original Message-----

From: Tayloe Dan-P26412 [mailto:Dan.Tayloe@motorola.com]

Sent: Friday, July 11, 2003 3:27 PM

To: Low Power Amateur Radio Discussion

Subject: Re: OP Amp VFO?

There are op-amps that very fast. An example is one by TI

<http://focus.ti.com/docs/prod/productfolder.jhtml?genericPartNumber=3DTHS=3202>

This op-amp is good to 2000 MHz. Much faster than 1 MHz 741!

>There's a more subtle reason to avoid op-amps in Hartley or
>Colpitts HF oscillators. Many transistor oscillators conduct
>feedback in short, intense spurts of current. Op-amps work
>best when conducting 100% continuously.

This raises an interesting point. Most the FET and transistor=20
oscillators seem to operate in something like a class C type mode
where for most of the RF cycle they are off, and turn on only
for a brief instant, which is highly non linear. =20

On the other hand, an oscillator using a high speed op-amp=20
could actively follow the sine wave input and possibly end up=20
creating a cleaner signal.

The problem is creating gain control in the feedback that would
keep the maximum oscillation amplitude from getting too large
and clipping.

- Dan, N7VE

Date: Fri, 11 Jul 2003 14:32:44 -0600 (MDT)

From: Karl Larsen <k5di@msn.com>

To: William Phinizy <k6whp@verizon.net>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [154075] Re: Extra Class Question Pool

Message-ID: <Pine.LNX.4.44.0307111427040.2100-1000000@bucket.dog>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Bill, I have no idea which version of the Extra pool your talking about. The Current pool that we VE's are using is MUCH more technical than the previous one. The Current pool includes questions from the old Advanced Class pool. If what you want is the pool, that can be d/l from the ARRL web page or any VE like myself can send you the questions since they are not copyrighted.

On Fri, 11 Jul 2003, William Phinizy wrote:

> My lovely bride has succumbed to the intense pressure and
> agreed to upgrade from Tech+ to General and Extra. Only
> problem is, I have an ARRL Extra Class manual volume seven
> and they include the new question pool in volume eight. I
> went through the new pool versus the old pool and noted some
> differences but not a lot. Two questions:
>
> (1) Is there a definitive itemization of the difference in
> the question pools?
>
> (2) Do you suppose it would be o.k. to study with volume
> seven of the ARRL manual and then take the on-line tests for
> Extra to freshen up?
>
> I mean, the V7 I have is brand new and electrons still
> pretty much behave the same as they have always done, right?
>
> ..what we hams go through to save a few bucks!
>
> Thanks in advance.
>
> Bill, k6whp
>
>
--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Fri, 11 Jul 2003 15:49:06 -0700
From: "Joe Martin" <km5cw@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [154076] Slackware-9.0 question
Message-ID: <001e01c347fe\$a2efddc0\$ea2dbad0@j4q8u6>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone know how far down the list the Slackware 9.0 cd's are?
I've got a "new" used 10 gig hd standing in the wings ready to go<g>
KM5CW Joe

thanks for the break folks

----- Original Message -----

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Sent: Monday, June 30, 2003 10:58 PM

> Subject: OT Slackware 9 Distro

>

>

> The 10 Slackers on the distro list will be getting private email now =
> with the distro list. I am mailing the seed disks tomorrow so watch your
mailboxes.

> PS- check out <http://www.dropline.net>

> That official release addon will be included so you will each be =

> burning 5 cd's total (except for the terminus of the distro who where >
not able = to burn). Sorry for the BW and we return you to your

> original = programming.

> -- Mike Malone KD5KXF

> Balch Springs, Texas

Date: Fri, 11 Jul 2003 17:11:16 -0400
From: Lenny Wintfeld <w2bvh@comcast.net>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [154077] Re: Op Amp VFO
Message-ID: <3F0F27F4.6030603@comcast.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

If you have a wideband connection, try
<http://focus.ti.com/lit/an/slod006b/slod006b.pdf> (it's a 2 Mb file).
Chapter 15 has Wein bridge, phase shift, bubba (honest!) and quadrature
op amp oscillators, including amplitude stabilization analysis.

This still leaves variable-frequency and radio-frequency operation to
contemplate.

73,
Lenny W2BVH

Date: Fri, 11 Jul 2003 17:42:31 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: qrp-L Reflector <qrp-l@lehigh.edu>,
noga reflector <nogaqrp@mailman.qth.net>
Subject: [154078] Millen 90652
Message-ID: <5.2.1.1.2.20030711173613.03b48b20@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

There is a VERY NICE (near MINT) Millen 90652 (solid state) GDO FS at the e-place-for a VERY NICE price (\$55 so far). I personally rate this model #2 overall out of the solid state GDOs I know about. (For Inquiring-Minds-[who]-Want-To-Know, I rank the Kenwood DM-81 as #1). This Millen is not mine... I simply found it keeping an eye out for 'new' ones. See: <3034278487>

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Fri, 11 Jul 2003 15:50:55 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-1@lehigh.edu
Subject: [154079] Re: Manuals and schematics back up on Mizuho site
Message-ID: <20030711.155056.-569429.0.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

guess you are settled in after the move - Congratulations
on the new call.

73

Ray

"Texas can make it without the United States,
but the United States can't make it without Texas."

Sam Houston, Governor

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M GQRP-6115

ARCI-5784 NCT2R FP-111 El Paso, (FAR WEST) TEXAS

Date: Fri, 11 Jul 2003 18:18:09 EDT
From: IamSF5@aol.com
To: qrp-1@lehigh.edu
Cc: fpqrp-1@fpqrp.com
Subject: [154080] Narrow CW filter in the FT 100-D
Message-ID: <a2.39a71066.2c4091a1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,

I installed the optional CW filter in the FT 100-D.

I don't notice any difference.

The book says to go to menu 32 and set it to ON

But menu # 32 is 300,OFF 0.600.

Menu 31 has 500 & off so I set that to OFF to use only the 300hz filter.
No matter what settings I punch in it seems like I don't have the 300hz
filter installed.

I wanted to be able to toggle from 300,500 and 2.4 KC for CW.

With menu set to OFF I can no longer access the 500hz filter.

But my biggest concern is that the 300hz filter seems about the same as the 500 hz filter.

Anyone have any suggestions or input on this optional filter?

Thank you

Bob

AF2Q

Date: Fri, 11 Jul 2003 15:38:46 -0700
From: K7VO <k7vo@earthlink.net>
To: w5xe@juno.com
Cc: qrp-1@lehigh.edu
Subject: [154081] Re: Manuals and schematics back up on Mizuho site
Message-ID: <20030711153846.13840416.k7vo@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

On Fri, 11 Jul 2003 15:50:55 -0600
William R Colbert <w5xe@juno.com> wrote:

> guess you are settled in after the move - Congratulations
> on the new call.

>

Hi, Ray, and everyone else,

I'm still in temporary housing, so I wouldn't call myself settled yet.
Thanks for the congratulations. The call sounds quite nice in CW,
doesn't it?

72,
Caity
K7VO

Date: Fri, 11 Jul 2003 18:36:21 -0700
From: "Jim and Jade" <kw3u@warwick.net>
To: "Walter D. Amos" <waltk8cvamosqrp@gbronline.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154082] Re: Batteries and charging
Message-ID: <00ac01c34816\$0095bf00\$b5a006d8@f5b712>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

If anyone needs to experiment with the lamps mentioned, I have a half dozen or so of resistance lamps in the junk box, used to be used for sealing current on special circuits in telephone work and other fun things.
free one to a customer, unless you really need more, postage appreciated but not necessary, 72 Jim

----- Original Message -----

From: "Walter D. Amos" <waltk8cvamosqrp@gbronline.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, July 11, 2003 4:57 AM
Subject: Batteries and charging

> In the dark ages at work in the phone company we used to have
CONCENTRATORS
> , and that is another story, but the things required BATTERIES and we
> charged them for the field forces and used RESISTANCE LAMPS in series with
> the darn dead things to limit the current. The lamps would be very bright
> with a dead battery and slowly go out as they came up to voltage.
Naturally
> this circuit was ENGINEERED in the IVORY TOWER OF BELL LABS so it must
have
> been the right and proper thing to do so you all must stop these post and
> adopt this method as it is " BELL SYSTEM PRACTICES " and came from the
IVORY
> TOWER and must be right and correct ! If I remember the lamps were around
> 300 ohms and naturally the voltage was 48 V and the batteries were 48 V
> batteries as EVERYTHING IN THE WORLD OF BELL ran on 48 VOLTS !
>
> A simple light bulb could be used for this ! This is one of those
> REVELATIONS that come along once in a life time, seize upon it and go
forth
> and DEVELOP CIRCUITS
>
> Walt K8CV Royal Oak, Mi.
>
>

Date: Fri, 11 Jul 2003 15:31:07 -0700
From: Randy Foltz <rfoltz@turbonet.com>
To: qrp-l_post <qrp-l@lehigh.edu>
Subject: [154083] Reminder of QRP ARCI Summer Homebrew

Message-ID: <3F0F3AAB.8178ADB5@turbonet.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Just a reminder that Sunday, July 13 from 2000 through 2400Z is the QRP ARCI Summer Homebrew contest. Get a higher power multiplier of 20X if you use 55 mW or less. Get bonus points for using a homebrewed rig. Full details are at <http://personal.palouse.net/rfoltz/arci/sumhom.htm>

The quick summary is

When: July 13, 2003 from 2000Z through 2400Z

Where: Near any of the QRP fq on 160, 80, 40, 20, 15, and 10 m

Exchange: Signal report, State/Province/Country (SPC), QRP ARCI member number or power level

QSO Points: 5 for each member, 2 for each non-member on same continent, and 4 for each non-member on different continent

Multipliers: One for each SPC. Each band counts separately so you add all the bands together

Power Multiplier:

< 55 mW = x 20 <=== NEW!!!

55 to < 250 mW = x 15

250 mW to < 1 W = x 10

1 W to 5 W = x 7

> 5 W = x 1

Bonus Points for homebrew gear (per band):

Add 2,000 points for using HB transmitter

Add 3,000 points for using HB receiver

Add 5,000 points for using HB transceiver
if you built it, it is homebrew!

Final Score:

QSO Points X Multipliers X Power Multiplier + Bonus

Use the High Claimed Score Form at

<http://personal.palouse.net/rfoltz/arci/form.htm> to send me your summary, the send me a copy of your log to

rfoltz@turbonet.com Check the High Claimed Scores page at

<http://personal.palouse.net/rfoltz/arci/highclm.htm> after 9

PM PDT each night for a week to see how others have done.

You can also send your results and logs via regular mail to

Randy Foltz
809 Leith St.
Moscow, ID 83843

See you on the air.

--
73,
Randy, K7TQ
Moscow, ID
QRP ARCI Contest Chairman

End of QRP-L Digest 2978

